

GOVERNMENT OF MAHARASHTRA



GOVERNMENT COLLEGE OF ENGINEERING, KARAD
(An Autonomous Institute of Govt. of Maharashtra)

B-1 TENDER PAPERS (E-Tender)

**FOR THE WORK OF - CONSTRUCTION OF SC/ST GIRLS HOSTEL
BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING
KARAD, TAL.KARAD, DIST.SATARA.**

Estimated Amount	:	Rs.	65546390.00
Earnest Money	:	Rs.	328000.00
Security Deposit	:	Rs.	656000.00

Tender Notice No. GCEK/BWC/Civil Works/2024-25/3072
(E-Tender) 2024-2025 **2 AUG 2024**

Signature of Contractor

No. of Corrections

Principal

INDEX

Name of Work: CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL-KARAD, DIST-SATARA.

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Issued to : _____ Registered in Class : _____

Valid upto : _____

D.R.No. : _____

On dated _____ Dated : _____

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

DISCLAIMER

1. Detailed Time Table for the various activities to be performed in e-tendering process by the Tenderer for quoting their offer is given in this Tender Document under "Tender Schedule". Contractor should carefully note down the cut-off dates for the carrying out each e-tendering process / activity.
2. Every effort is being made to keep the Website up to date and running smoothly 24 x 7 by the Government College and the Service Provider. However, Government College takes no responsibility, and will not be liable for, the website being temporarily unavailable due to any technical issue at any point of time.
3. In that event Government College of Engineering, Karad will not be liable or responsible for any damages or expenses arising from any difficulty, error, imperfection or inaccuracy with this Website. It includes all associated services, or due to such unavailability of the Website or any part thereof or any contents or any associated services.
4. Tenderers must follow the time table of e-tendering process and get their activities of e-tendering processes done **well in advance** so as to avoid any inconvenience due to unforeseen technical problem if any.
5. Government College of Engineering, Karad will not be responsible for any incomplete activity of e-tendering process of the tenderer due to technical error/ failure of website and it cannot be challenged by way of appeal, arbitration and in the Court of Law. **Contractors must get done all the e-tendering activities well in advance.**
6. Interested bidder may visit the campus to get detailed information, if required, from Building Works Committee (BWC).

Signature of Contractor

No. of Corrections

Principal
Govt. College of Engineering, Karad

महाराष्ट्र शासन,

प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड ४१५ १२४

दुरध्वनी क्रमांक ०२१६४/२७१७११, २७२४१४, ७६२०३२६६३२

वेब - www.gcekarad.ac.in ईमेल - principal@gcekarad.ac.in

ई-निविदा सूचना क्रमांक GCEK/BWC/Civil Works/२०२४-२५/3072 सन २०२४-२०२५ (ऑनलाईन)

प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड ४१५ १२४ (दुरध्वनी क्रमांक ०२१६४/२७१७११, २७२४१४, ७६२०३२६६३२) हे बी-१ नमुण्यातील निविदा महाराष्ट्र शासनाच्या सार्वजनिक बांधकाम खात्याकडील योग्य त्या वर्गातील नोंदणीकृत कंत्राटदारांकडून किंवा निविदेतील अटी व शर्ती पूर्ण करणारे व तत्सम प्रकारचे काम केलेले अनुभवी कंत्राटदार / फर्म यांचेकडून या विभागाच्या कार्यक्षेत्रातील खालील कामाकरीता ई-निविदा प्रणालीद्वारे (ऑनलाईन) मागवित आहोत.

निविदा कागदपत्रे शासनाच्या संकेतस्थळावर <https://mahatenders.gov.in> येथून डाऊनलोड करण्यांत यावीत. तसेच निविदा स्विकारण्याचा अथवा नाकारण्याचा अधिकार प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड यांनी राखून ठेवलेला आहे. अट असलेली निविदा स्वीकारली जाणार नाही. कामाच्या अंदाजपत्रकीय दरामध्ये GST समाविष्ट नाही. कंत्राटदार यांनी त्यांचा देकार सुद्धा GST वगळून (समाविष्ट न करता) द्यावयाचा आहे. कंत्राटदार यांना GST देयकाच्या रकमेवर देय दराने स्वतंत्रपणे अदा करण्यात येईल.

अ.क्र.	कामाचे नाव	कामाची अंदाजित किंमत रु. लक्ष
१	शासकीय अभियांत्रिकी महाविद्यालय, कराड येथे अनुसूचित जाती / जमाती मधील अभियांत्रिकी विद्यार्थिनींसाठी प्रस्तावित वसतीगृह इमारत बांधणे ता. कराड, जि.सातारा.	६५५.४६ लक्ष

ई-निविदा उपलब्ध कालावधी : दिनांक- ०२/०८/२०२४ ते दिनांक- २७/०८/२०२४

ई-निविदा उघडणे : दिनांक- २८/०८/२०२४ ते ३०/०८/२०२४

खालील संकेतस्थळावर ई-निविदाची सर्व माहिती उपलब्ध आहे.

१. <https://mahatenders.gov.in>

(सदर निविदा सुचने मध्ये काही बदल होत असल्यास वरील वेबसाईटवरती कळविण्यात येईल)

२. संस्थेची वेबसाईट www.gcekarad.ac.in

जा.क्र. - GCEK/BWC/Civil Works/२०२४-२५/3072

प्राचार्य,

शासकीय अभियांत्रिकी महाविद्यालय,

कराड यांचे कार्यालय

दिनांक:

प्राचार्य,
शासकीय अभियांत्रिकी महाविद्यालय,
कराड

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

महाराष्ट्र शासन,

प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड ४१५ १२४

दुरध्वनी क्रमांक ०२१६४/२७१७११, २७२४१४, ७६२०३२६६३२

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प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड ४१५ १२४ (दुरध्वनी क्रमांक ०२१६४/२७१७११, २७२४१४, ७६२०३२६६३२) हे बी-१ नमुन्यातील निविदा महाराष्ट्र शासनाच्या सार्वजनिक बांधकाम खात्याकडील योग्य त्या वर्गातील नोंदणीकृत कंत्राटदारांकडून किवा निविदेतील अटी व शर्ती पूर्ण करणारे व तत्सम प्रकारचे काम केलेले अनुभवी कंत्राटदार / फर्म यांचेकडून या विभागाच्या कार्यक्षेत्रातील खालील कामाकरीता ई-निविदा प्रणालीद्वारे (ऑनलाईन) मागवित आहोत.

निविदा कागदपत्रे शासनाच्या संकेतस्थळावर <https://mahatenders.gov.in> येथून डाऊनलोड करण्यात यावीत. तसेच निविदा स्विकारण्याचा अथवा नाकारण्याचा अधिकार प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड यांनी राखून ठेवलेला आहे. अट असलेली निविदा स्वीकारली जाणार नाही. कामाच्या अंदाजपत्रकीय दरामध्ये GST समाविष्ट नाही. कंत्राटदार यांनी त्यांचा देकार सुद्धा GST वगळून (समाविष्ट न करता) द्यावयाचा आहे. कंत्राटदार यांना GST देयकाच्या रकमेवर देय दराने स्वतंत्रपणे अदा करण्यात येईल.

अ. क्र.	कामाचे नाव	कामाची अंदाजित किंमत रु. लक्ष	इसारा/ बयाणा रक्कम	काम पूर्ण करण्याचा कालावधी	ई निविदा संचाची किंमत	नोंदणी वर्ग
१	शासकीय अभियांत्रिकी महाविद्यालय, कराड येथे अनुसूचित जाती / जमाती मधील अभियांत्रिकी विद्यार्थिनींसाठी प्रस्तावित वसतीगृह इमारत बांधणे ता.कराड.जि.सातारा.	६५५.४६ लक्ष	३२८०००/-	२४ महिने	५०००/-	सक्षम कंत्राटदार

ई-निविदेचे वेळापत्रक

१.	निविदा ऑनलाईन डाऊनलोड करण्याचा कालावधी	दिनांक- ०३/०८/२०२४ वेळ सकाळी १०:०० ते दिनांक- २७/०८/२०२४ वेळ संध्याकाळी १७:३० पर्यंत
२.	निविदाकारांनी ऑनलाईन निविदा तयार करण्यासाठी हॅश (Hash) सादर करण्याचा दिनांक (तांत्रिक व आर्थिक निविदा अंतिम दिनांक व वेळ)	दिनांक- ०३/०८/२०२४ वेळ सकाळी १०:०० ते दिनांक- २७/०८/२०२४ वेळ संध्याकाळी १७:३० पर्यंत
३.	Hard Copy सादरीकरण	ई- निविदा पोर्टलवर निविदा सादर केल्यानंतर (बीड लॉक) झाल्यानंतर निविदा बाबतची हार्डकॉपी १ प्रतीत (वरील कामासाठी) (तांत्रिक लिफाफा) सिलबंद लखोट्यात दिनांक- २८/०८/२०२४ रोजी १७:३० वाजेपर्यंत प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड यांचे कार्यालयात सादर करणे बंधनकारक राहील.
४.	तांत्रिक आणि आर्थिक देकार उघडण्याचे ठिकाण, दिनांक व वेळ	प्राचार्य, शासकीय अभियांत्रिकी महाविद्यालय, कराड यांचे कार्यालयात दिनांक- २८/०८/२०२४ रोजी सकाळी ११:०० ते दिनांक- ३०/०८/२०२४ रोजी सायं. १७:३० वाजेपर्यंत ऑनलाईन उघडण्यात येतील. (शक्य झाल्यास)

Signature of Contractor


No. of Corrections

Principal
Govt.College of Engineering, Karad

टिप :-

१. सर्व पात्र /इच्छुक निविदाकारांनी निविदापत्रक डाऊनलोड करण्यासाठी व निविदा प्रक्रियेत भाग घेण्यासाठी ई निविदा प्रणालीच्या Main Portal- <https://mahatenders.gov.in> " साईटवर enrolled करणे आवश्यक आहे.
२. निविदाकारांना वर नमुद केलेल्या संकेतस्थळावर ऑनलाईन देकार भरणे संदर्भात व डिजीटल प्रमाणपत्र वितरीत करण्यासंदर्भात काही शंका/अडचणी असल्यास त्यांनी खालील दुरध्वनी क्रमांकावर संपर्क साधावा. National Informatics Centre. on ०१२०-४२००४६२, ०१२०-४००१००२
३. निविदाकारांनी निविदा संदर्भात सर्व दस्तऐवज ऑनलाईन सादर करणे अनिवार्य राहिल. तसेच बयाना रककम ऑनलाईन सादर करणे अनिवार्य राहिल. ऑनलाईन कोरा निविदा संच डाऊनलोड करणेसाठी e-payment gateway व्दारे कोरा निविदा संचाची किंमत ई-निविदा वेळापत्रकामध्ये नमुद केलेल्या दिनांक व वेळपर्यंत सादर करणे आवश्यक आहे. अन्यथा ऑनलाईन निविदा उघडण्यात येणार नाही याची नोंद घ्यावी.
४. इतर अटी व शर्ती ई-निविदा नमुन्यामध्ये पहावयास मिळतील. सदर कामांची एक अथवा सर्व ई-निविदा कोणतेही कारण न देता रद्द करण्याचे अधिकारी सक्षम अधिकारी यांनी राखून ठेवलेले आहेत. वरील कामासाठी निविदोत्तर कंत्राटदारांच्या पात्रतेचे निकष लावण्यात आले आहेत.
५. वरील कामांची ई-निविदा सूचना संस्थेच्या www.gcekarad.ac.in या इंटरनेटवरील वेबसाईटवर उपलब्ध आहे.

जा.क्र. - GCEK/BWC/Civil Works/२०२४-२५/ 3672
 प्राचार्य,
 शासकीय अभियांत्रिकी महाविद्यालय,
 कराड यांचे कार्यालय
 दिनांक:


 प्राचार्य,
 शासकीय अभियांत्रिकी महाविद्यालय,
 कराड

Signature of Contractor

No. of Corrections

Principal
 Govt.College of Engineering, Karad

GOVT. OF MAHARASHTRA**Govt.College of Engineering, Karad- 415 124****Phone No. 02164/271711, 272414,7620326632, Fax: 02164/271713****Web - www.gcekarad.ac.in. & Email – principal@gcekarad.ac.in****E-TENDER NOTICE NO. GCEK/BWC/Civil Works/2024-24/3072 FOR 2024-2025**

The Principal, Government College of Engineering, Karad invites tender notice in **B-1** form for the execution of works through e- tendering process from contractors registered in the appropriate class with the Government of Maharashtra, Public Works Department or Reputed and experienced Contractors / Firms who fulfill the terms and condition of tender and having experience of similar type of work.

The right to accept/ reject tender reserves to Principal, Government College of Engineering, Karad. Bids document can be downloaded from website <https://mahatenders.gov.in> Conditional tender will not be accepted. **Estimated rates do not contain GST. Contractors shall also quote their rates without GST (Excluding GST). GST will be paid to Contractors at prevailing rates on bill amount separately.**

e-tender work No.	Name of Work	Estimated Cost (Rs. in Lakh)
1	Construction of SC / ST Girls Hostel Building at Government College of Engineering Karad, Tal.Karad, Dist.Satara.	655.46 Lakh


E-Tender Period :- **Date- 02/08/2024 to Date- 27/08/2024**

E-Tender opening :- **Date- 28/08/2024 to 30/08/2024**

All information related to Tender is available on below website.

1. <https://mahatenders.gov.in>
(If there is any change in E- Tender Notice it will be displayed on above website)
2. Institute's website - www.gcekarad.ac.in

No. GCEK/BWC/Civil Works/2024-25/ 3072
Principal,
Government College of Engineering, Karad
Date :


Principal,
Govt.College of Engineering, Karad

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

GOVT. OF MAHARASHTRA**Govt.College of Engineering, Karad- 415 124****Phone No. 02164/271711, 272414, 7620326632, Fax: 02164/271713****Web - www.gcekarad.ac.in. & Email – principal@gcekarad.ac.in****E-TENDER NOTICE NO. GCEK/BWC/Civil Works/2024-24/3672 FOR 2024-2025**

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e- tender work No.	Name of Work	Estimated Cost Rs. (Rs. in Lakh)	Earnest Money Rs.	Time limit for Completion	Cost of e-tender Form Fee Rs.	Classs of contractor
1	Construction of SC / ST Girls Hostel Building At Government College of Engineering Karad, Tal.Karad, Dist.Satara.	655.46 Lakh	328000/-	24 Months	5000/-	Eligible Contractor

E-tender time table

1	Download Period of online Tender	Dt. 03/08/2024 at 10.00 am. to Dt. 27/08/2024 up to 17.30 p.m.
2	Submit Hash to Create online Tender by Contractor (Technical and financial Bid Last date and time)	Dt. 03/08/2024 at 10.00 am. to Dt. 27/08/2024 up to 17.30 p.m.
3	Hard Copy Submission	Hard Copy Submission After Bid Submission on E - Portal (After Bid Lock) one Set of Bid Document (Technical and Financial Bid) Hard Copy submitted in the office of the Principal, Government College of Engineering, Karad on Dt. 28/08/2024 up to 17.30 Hrs.
4	Place, Date and timing of opening Technical-bid and Financial bid.	Dt. 28/08/2024 at 11.00 am. to Dt. 30/08/2024 up to 17.30 p.m. in the office of the Principal, Government College of Engineering, Karad (If Possible)

Signature of Contractor


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Note: -

1. All eligible/ interested Bidders who want to participate in tendering process should compulsory get enrolled on e-tendering portal <https://mahatenders.gov.in> and further need to empanel online on sub portal "<https://mahatenders.gov.in>" in the appropriate category applicable to them.
2. Contact details for difficulties in submission of online tenders if any.
National Informatics Center. On 0120-4200462, 0120-4001002)
3. It is compulsory for all participates to submit all documents online. It is also compulsory to submit The EMD shall be paid via Online mode only. In case of failure online offer will not be opened.
4. Other term and condition displayed in online e-tender forms. Right to reject any or all online bid of work without assigning any reasons thereof is reserved. In respect of above works Post Qualification Criteria is applied.
5. Above Tender Notice is displayed on institute's website - www.gcekarad.ac.in

No. GCEK/BWC/Civil Works/2024-25/3072
Principal,
Government College of Engineering, Karad
Date :


Principal,
Govt.College of Engineering, Karad

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Govt.College of Engineering, Karad

GOVERNMENT COLLEGE OF ENGINEERING, KARAD

Original Agreement No. : B-1/

Name of Work: **CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING
AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD,
DIST.SATARA.**

Name of Contractor:

Number & Date of Work :
Order

Amount put to Tender : **Rs. 65546390.00**

Percentage quotes :

Amount of Contract :

Date of Commencement :

Time stipulated for
completion of work : **24 (Twenty-Four) Months.** (Including Monsoon)

Date of completion as per :
Agreement

Actual date of completion :

Reference to sanction of :

Tender

Signature of Contractor

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DETAILS OF WORK**NAME OF WORK: CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING, KARAD, TAL.KARAD,DIST.SATARA.**

Estimated Cost put to tender : **Rs. 65546390.00**

Earnest Money : **Rs. 328000.00**

The EMD of **Rs.328000.00/-** shall be paid via (NEFT/ RTGS or payment gate way mode) Earnest money exemption certificate will not be accepted. Total Security Deposit 1% (two percent) **Rs.656000.00/-** (50% in cash at the time of Agreement and 50% from R.A. bills).

TENDER SCHEDULE

Cost of Tender Form	:	Rs. 5000/-
Period for Downloading Tender Forms	:	Refer Online schedule on portal https://mahatenders.gov.in
Last date and time for online bid preparation and hash submission (technical and financial)	:	Refer Online schedule on portal https://mahatenders.gov.in
Date and time for online bid data decryption and re-encryption (technical and commercial)	:	Refer Online schedule on portal https://mahatenders.gov.in
Receipt of <u>online Tender Document Fee and EMD</u>	:	<u>Tender Document Fee and EMD to be paid via online RTGS / NEFT / Payment Gateway mode only.</u>
Notarized Affidavit on Stamp paper of Rs. 100/- (Original) in prescribed format given in Annexure- I, sworn before Executive Magistrate / Notary.	:	Notarized Affidavit on Stamp paper of Rs. 100/- in Original to be submitted Physically within 72 Hrs from the last date of submission.
DD / FDR / BG of Additional performance Security Deposit (If required).	:	<u>To be submitted within 8 days</u>
Registration class of Contractor	:	Eligible Contractor

TO BE FILLED IN BY THE CONTRACTOR

I/We have quoted my/our offer in percentage rate in words as well as in figures. I/We further undertake to enter into contract in regular “B-1” form in Government College of Engineering, Karad

Name and signature of Contractor / Power of Attorney holder with complete address

Signature of Contractor

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**GOVERNMENT COLLEGE OF
ENGINEERING, KARAD
INVITATION FOR TENDERS
DETAILED TENDER NOTICE TO CONTRACTOR**

Name of Work: **CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA.**

1.0 Online percentage rate tenders in 'B-1' Form are invited by the **Principal, Government college of Engineering, Karad** for the following work from Contractors Registered in the appropriate class with the Government of Maharashtra, Public Works Department OR Reputed and experienced Contractors/ Firms who fulfill the terms and condition of tender and having experience of similar type of work. The name of work, estimated cost, earnest money, security deposit, time limit for completion etc. are as under.

Sr. No.	Name of work	Estimated Cost (Rupees)	Earnest Money (Rupees)	Security Deposit (Rupees)	Class of Contractor	Time limit in Tender (Calendar months)
1.	CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA.	65546390.00	328000.00	656000.00	Eligible Contractor	24 (Twenty-Four) Months Including monsoon

1.1 Tender form, conditions of contract, specifications and contract drawings can be downloaded from the e-tendering portal of Government of Maharashtra i.e. <https://mahatenders.gov.in> after entering the details, payment of **Rs. 5000/- (Rupees Five Thousand only)** should be paid online using payment gateway. The fees of tender document will be non-refundable. Further information regarding the work can be obtained from the above office.

1.2 Original Notarized Affidavit on Rs. 100 /- stamp paper in prescribed form given in Annexure-I sworn before Executive Magistrate / Notary, and Original Agreement of Hired Machinery should be submitted in sealed covers addressed to the **Principal, Government college of engineering, Karad** with the name of the work written at the top of the envelope will be received in the office of the **Government college of engineering, Karad** within 72 hours from last date and time of Bid Submission. Bids will be opened as per the Tender Schedule (if possible), in the presence of such intending Tenderers or his/ their authorized representatives who may be present at that time. The Lowest Tenderer shall also submit Additional Security Deposit (If required) within 8 days.

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1.3 The offer of the Contractor shall remain valid for acceptance for a minimum period of **90** days from the date fixed for opening of Envelope No. 2 (Main Tender) and there after until it is withdrawn by the Contractor by notice in writing duly addressed to the authority opening the tender and sent by Registered Post Acknowledgement Due.

1.4 The tender notice shall form a part of the contract agreement.

1.5 The tenders are invited on the Departmental design only.

1.6 The tenderer if firm or company shall in their forwarding letter mention the names of all the partners of the firm or the company (as the case may be) and the name of the partner who holds the power attorney if any, authorizing him to conduct transaction on behalf of the Firm or Company.

1.7. Right is reserved to revise or amend the contract documents fully or part thereof prior to the date notified or amended for the receipt of tender. Such deviations/ amendments if any, shall be communicated in the form of corrigendum or by a letter as may be considered suitable.

1.8 The tenderer shall enter his percentage rates in words and figures " below / above". In case there is difference between percentage written in figures and words, the lower offer will be taken as final.

1.9 No pages should be removed from, added in or replaced in the Tender.

1.10 Right is reserved to reject any or all tenders without assigning any reason thereof.

1.11. Tenders which do not fulfill all or any conditions or are incomplete in any respect are liable to summary rejection.

1.12. For all concrete works under this contract shall be carried out with Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic meter per hour capacity of any standard company. (Owned) OR Fully Automatic Micro Processor based PLC with SCADA Enabled Reversible Drum Type Concrete Mixer of minimum 12 to 15 cum/hr capacity of any standard company shall be intalled at the site of work with appropriate number transit mixer and pumps shall be used.

1.13. The contractor shall install sand screening cum washing unit electrically or diesel operated 4/6 cum/hour capacity.

1.14. The contractor shall install Compression Testing Machine (CTM) for the testing cement mortar, Concrete at the site, linked with "SCADA" etc., complete. The data so acquired shall be uploaded to PWD website in real time with time lag not more than 30 seconds.

1.15. Contractor shall install pressure control water curing system using necessary pumps.

1.16 Uploading / Submission of any false information, false bills / invoice / vouchers of purchase of material / any other documents:

Contractor will be solely responsible and liable for action under Indian Penal Code for uploading or physical submission of any false/ fraudulent document/ information of envelope No.1 &2.

Contractor will be solely responsible and also liable for action under Indian Penal Code for submission of any false information, false bills/invoice/vouchers of purchase of material in

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supporting proof of purchase, proof of testing/test results and any other required documents submitted by his staff/ representative or by himself or subletting company/contractor during contract period or even after completion of work till finalization of bill and completion of defect liability period.

If false information/ documents are submitted as mentioned above, the contractor will be blacklisted and if contract is at initial stage, then such contract will be terminated and no any compensation will be payable on any account to the contractor.

Government College of Engineering, Karad will not be responsible for any complications due to submission of false/ fraudulent documents by the contractor as mentioned above.

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GENERAL

- a) **Time limit** : The work is to be completed within time limit as specified in the Notice inviting tender which shall be reckoned from the date of written order of commencing the work and shall be inclusive of monsoon period.
- b) **Tender Rate**: No alteration in the form of tender and the schedule of tender and no additions in the scope or special stipulation will be permitted. Rates quoted for the tender shall be taken as applicable to all leads and lifts.
- c) **Tender Units**: The tenderers should particularly note the unit mentioned in the Schedule "B" on which the rates are based. No change in the units shall be allowed. In the case of difference between rates written in figures and words, the correct rate will be the one, which is lower of the two.
- d) **Correction**: No corrections shall be made in the tender documents. Any corrections that are to be made by crossing the incorrect portion and writing the correct portions above with the initials of the tenderer.
- e) All pages of tender documents, conditions, specifications, correction slips, etc. shall be initialed by the tenderer. The tender should bear full signature of the tenderer, or his authorized power of attorney holder in case of Firm.
- f) **The rates quoted by the Contractor shall be exclusive GST but shall be deemed to be inclusive of other taxes, levies including royalty, cess that the contractor will have to pay for the performance of this contract. The employer will perform such duties in regard to the deduction of such taxes, as applicable at source as per applicable law. GST will be paid to contractors at prevailing rates on bill amount separately.**
- g) The **Income Tax @ 2% or** percentage in force from time to time or at the rate as intimated by the competent Income Tax authority shall be deducted from bill amount whether measured bill, advance payment or secured advance.
- h) **Royalty: - Royalty shall be recovered from R.A. Bills**, if challans of revenue authority is not submitted at the rates in force from time to time or at the rate as intimated by the competent Revenue and Forest Department Authority.
- i) **Contractor shall quote his offer only on amount of Part - I, i.e. on work portion. Part-II Consist Lab Testing Charges, which are fixed Rates/ Amount.**
- j) **Establishment of field lab:**
As Per Minutes of Meeting issued by Public Works Department, Mantralay, Mumbai vide Letter No. Meeting-2020/Pra.kra.100/Ra.Ma.2, Dated.10/11/2020, for the works costing more than 1.00 Cr. (Estimated cost put to tender i.e. Work portion + Testing + Royalty Charges) it is mandatory to install the Field Laboratory at site of work.
- The Contractor shall establish the field lab with all the necessary equipment within 15 days from issue of work order and submit dated geo tag photographs of the lab. Failing which a fine of Rs.1000/- per day will be imposed till the lab is established. No running account or final bill will be paid to the contractor unless the Government college of engineering, Karad has confirmed the establishment of field lab.**
- k) **It is Compulsory to Pay appropriate amount of stamp duty to Revenue Authority by contractor after acceptance of tender as per Government of Maharashtra, Revenue and Forest Department Circular No. मुद्रांक-२०२०/अनौ. क्र.०१-२०१६/प्र.क्र.२१८/म-१ (धोरण), मंत्रालय, मुंबई-४०००३२, दि.१८ मार्च, २०२१.**

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2.0 EARNEST MONEY:

2.1 The EMD of Rs.328000.00 will be paid via online mode only (NEFT / RTGS or payment Gateway Mode (EMD exemption certificate will not be accepted)).

2.2 Tender of those who do not deposit earnest money in one of the above acceptable forms shall be summarily rejected. Earnest money in any other form of cash or cheque will not be accepted.

2.3 The amount of earnest money will be refunded to the unsuccessful tenderer on deciding about the acceptance or otherwise of the tender or on expiry of the validity period whichever is earlier.

In case of the successful tenderer, it will be refunded on his paying the initial security deposit and completing the tender documents or will be transferred towards a part of security deposit to be paid after awarding of the work. If successful tenderer does not pay the security deposit in the prescribed time limit and complete the agreement bond, his earnest money deposit will be forfeited to the Government College.

2.4 Earnest money of the un-successful tenderers will be refunded on their Accounts.

3.0 E-TENDERING PROCEDURE

3.1 Blank Tender Forms

Tender Forms can be purchased from the e-Tendering Portal of Government of Maharashtra i.e. <https://mahatenders.gov.in> after paying Tender Fees via **online mode** as per the **Tender Schedule**.

3.2 Pre-Tender Conference

3.2.1 Online or in the office of the **Principal, Government College of Engineering, Karad** raised any technical points on or before **Dt. / / 2024 upto 12.30 Hrs** (If bidder want to attend Prebid meeting through Video Conference. He shall ask link through e-mail : bwcgcekarad@gmail.com before **Dt. / / 2024 up to 4.00 pm.**). Pre-tender conference is open to all prospective tenderers who have downloaded tender form before the date of Pre-tender Conference. wherein prospective Tenderers will have an opportunity to obtain clarifications regarding the work and the Tender Conditions. The prospective tenderers may also post their queries only using post query option for the tender.

3.2.2 The prospective tenderers are free to ask for any additional information or clarification either in writing or orally concerning the work, and the reply to the same shall be uploaded on the portal <https://mahatenders.gov.in> and this clarification referred to as Common Set of Conditions/Deviations (C.S.D.), shall form part of tender documents and which will also be common and applicable to all tenderers. The point/points if any raised in writing and/or verbally/ online by the contractor in pretender conference and not finding place in C.S.D. issued after the pre- bid conference, is/are deemed rejected. In such case the provision in NIT shall prevail. No individual correspondence will be made thereafter with the contractor in this regard.

3.2.3 The tender submitted by the tenderer shall be based on the clarification, additional facility offered (if any) by the Institute, and this tender shall be unconditional. **CONDITIONAL TENDER SHALL BE SUMMARILY REJECTED.**

3.2.4 All tenderers are cautioned that tenders containing any deviation from the contractual terms and conditions, specifications or other requirements and conditional tenders will be treated as non-responsive. The tenderer shall clearly mention in his forwarding letter that his offer (in envelope No. 1 & 2) does not contain any conditions, deviations from terms and conditions stipulated in the tender.

3.2.5 Tenderers shall have valid Class II / III Digital Signature Certificate (DSC) obtained from any Certifying Authority. In case of requirement of DSC, interested Bidders shall go to <https://mahatenders.gov.in> and follow the procedure mentioned in the document 'Procedure for application of Digital Certificate'.

3.2.6 The Tenderers have to make a payment online as service charges for the use of Electronic Tendering during Online Bid Data Decryption and Re-encryption stage of the Tender.

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- 3.2.7 For any assistance on the use of Electronic Tendering System, the Users may call the below numbers:

Landline No. – 0120-4200462, 0120-4001002

- 3.2.8 Tenderers shall install the Mandatory Components available on the Home Page of <https://mahatenders.gov.in> under the section '**Mandatory Components**' and make the necessary Browser Settings provided under section '**Internet Explorer Settings**'

3.3 Guidelines to Bidders on the operations of Electronic Tendering System of Government of Maharashtra.

All eligible contractors willing to participate in e-tendering process shall enroll their name/ Firm on the portal <https://mahatenders.gov.in> for download of tender documents etc.

3.4 Pre-requisites to participate in the Tenders processed by Government College:

1. Enrolment and Empanelment of Contractors on Electronic Tendering System:

The Contractors interested in participating in the Tenders of Government College - processed using the Electronic Tendering System shall be required to enroll on the Electronic Tendering System to obtain User ID.

After submission of application for enrolment on the System, the application information shall be verified by the Authorized Representative of the Service Provider. If the information is found to be complete, the enrolment submitted by the Vendor shall be approved.

For participating in Limited and Restricted tenders the registered vendors have to apply for empanelment on the sub-portal of Government College in an appropriate class of registration. The empanelment shall have to be approved by the respective officer from the Government College. Only empaneled vendors will be allowed to participate in such tenders.

The Contractors may obtain the necessary information on the process of enrolment and empanelment either from Helpdesk Support Team or may visit the information published under the link Enroll under the section E-Tendering Toolkit for Bidders on the Home Page of the Electronic Tendering System.

2. Obtaining a Digital Certificate:

The Bid Data that is prepared online is required to be encrypted and the hash value of the Bid Data is required to be signed electronically using a Digital Certificate (Class - II or Class - III). This is required to maintain the security of the Bid Data and also to establish the identity of the Contractor transacting on the System.

The Digital Certificates are issued by an approved Certifying Authority authorized by the Controller of Certifying Authorities of Government of India through their Authorized Representatives upon receipt of documents required to obtain a Digital Certificate.

Bid data / information for a particular Tender may be submitted only using the Digital Certificate which is used to encrypt the data / information and sign the hash value during the Bid Preparation and Hash Submission stage. In case during the process of preparing and submitting a Bid for a particular Tender, the Contractor loses his/her Digital Signature Certificate (i.e. due to virus attack, hardware problem, operating system problem); he / she may not be able to submit the Bid online. Hence, the Users are advised to store his / her Digital Certificate securely and if possible, keep a backup at safe place under adequate security to be used in case of need.

In case of online tendering, if the Digital Certificate issued to an Authorised User of a Partnership Firm is used for signing and submitting a bid, it will be considered equivalent to a no objection certificate / power of attorney to that User to submit the bid on behalf of the Partnership Firm. The Partnership Firm has to authorize a specific individual via an authorization certificate signed by a partner of the firm (and in case the applicant is a partner, another partner in the same firm is required to authorize) to use the digital certificate as per Indian Information Technology Act, 2000.

Unless the Digital Certificate is revoked, it will be assumed to represent adequate authority of the Authority User to bid on behalf of the Firm for the Tenders processed on the Electronic Tender Management System of Government of Maharashtra as per Indian Information Technology Act, 2000. The Digital Signature of this Authorized User will be binding on the Firm. It shall be the responsibility of Partners of the Firm to inform the Certifying Authority or Sub Certifying Authority, if the Authorized User changes, and apply for a fresh Digital Signature Certificate. The procedure for application of a Digital Signature Certificate will remain the same for the new Authorised User.

The same procedure holds true for the Authorized Users in a Private / Public Limited Company. In this case, the Authorization Certificate will have to be signed by the Director of the Company or the Reporting Authority of the Applicant.

For information on the process of application for obtaining Digital Certificate, the Contractors may visit the section Digital Certificate on the Home Page of the Electronic Tendering System.

3. Recommended Hardware and Internet Connectivity:

To operate on the Electronic Tendering System, the Contractors are recommended to use Computer System with at least 1 GB of RAM and broadband connectivity with minimum 512 kbps bandwidth.

4. Set up of Computer System for executing the operations on the Electronic Tendering System:

To operate on the Electronic Tendering System of Government of Maharashtra, the Computer System of the Contractors is required be set up. The Contractors are required to install Utilities available under the section Mandatory Installation Components on the Home Page of the System.

The Utilities are available for download freely from the above-mentioned section. The Contractors are requested to refer to the E-Tendering Toolkit for Bidders available online on the Home Page to understand the process of setting up the System, or alternatively, contact the Helpdesk Support Team on information / guidance on the process of setting up the System.

3.5 Steps to be followed by Contractors to participate in the e-Tenders processed by Government College of Engineering, Karad

1. Preparation of online Briefcase:

All Contractors enrolled on the Electronic Tendering System of Government of Maharashtra are provided with dedicated briefcase facility to store documents / files in digital format. The Contractors can use the online briefcase to store their scanned copies of frequently used documents / files to be submitted as a part of their bid response. The Contractors are advised to store the relevant documents in the briefcase before starting the Bid Preparation and Hash Submission stage.

In case, the Contractors have multiple documents under the same type (e.g. multiple Work Completion Certificates) as mentioned above, the Contractors advised to either create a single .pdf file of all the documents of same type or compress the documents in a single compressed file in .zip or .rar formats and upload the same.

It is mandatory to upload the documents using the briefcase facility. Therefore, the Contractors are advised to keep the documents ready in the briefcase to ensure timely bid preparation.

Note: *Uploading of documents in the briefcase does not mean that the documents are available to Government College of Engineering, Karad at the time of Tender Opening stage unless the documents are specifically attached to the bid during the online Bid Preparation and Hash Submission stage as well as during Decryption and Re-encryption stage.*

2. Online viewing of Detailed Notice Inviting Tenders:

The Contractors can view the Detailed Tender Notice along with the Time Schedule (Key Dates) for all the Live Tenders released by Government College of Engineering, Karad on the home page of Government of Maharashtra e Tendering Portal on <https://mahatenders.gov.in> under the section Recent Online Tender.

3. Download of Tender Documents:

The Pre-qualification / Main Bidding Documents are available for free downloading. However, to participate in the online tender, the bidder must purchase the bidding documents via online mode by filling the cost of Tender Form Fee.

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4. **Online Bid Preparation and Submission of Bid Hash (Seal) of Bids:**

Bid preparation shall start with the stage of EMD Payment which bidder has to pay online using any one online pay mode as RTGS, NEFT or payment gateway.

For EMD payment, If bidder use NEFT or RTGS then system shall generate a challan (in two copies) with unique challan No specific to the tender. Bidder shall use this challan in his bank to make NEFT/RTGS Payment via net banking facility provided by bidder's bank.

Bidder shall have to validate the EMD payment as a last stage of bid preparation. If the payment is not realized with bank, in that case system shall not be able to validate the payment and shall not allow the bidder to complete his Bid Preparation stage resulting in nonparticipation in the aforesaid e-Tender.

Note:

- * **Realization of NEFT/ RTGS payment normally takes 2 to 24 hours, so it is advised to make sure that NEFT/RTGS payment activity should be completed well before time.**
- * **NEFT/RTGS option will be depend on the amount of EMD.**
- * **Help File regarding use of e-Payment Gateway can be downloaded from e-Tendering portal.**

Submission of Bids will be preceded by online bid preparation and submission of the digitally signed Bid Hashes (Seals) within the Tender Time Schedule (Key Dates) published in the Detailed Notice Inviting Tender. The Bid Data is to be prepared in the templates provided by the Tendering Authority of Government College of Engineering, Karad. The templates may be either form based, extensible tables and / or unloadable documents. In the form-based type of templates and extensible table type of templates, the Contractors are required to enter the data and encrypt the data using the Digital Certificate.

In the unloadable document type of templates, the Contractors are required to select the relevant document/compressed file (containing multiple documents) already uploaded in the briefcase.

Notes:

- a. The Contractors upload a single document or a compressed file containing multiple documents against each unloadable option.
- b. The Hashes are the thumbprint of electronic data and are based on one – way algorithm. The Hashes establish the unique identity of Bid Data.
- c. The bid hash values are digitally signed using valid Class - II or Class - III Digital Certificate issued any Certifying Authority. The Contractors are required to obtain Digital Certificate in advance.
- d. After the hash value of bid data is generated, the Contractors cannot make any change / addition in its bid data. The bidder may modify bids before the deadline for Bid Preparation and Hash Submission as per Time Schedule mentioned in the Tender documents.
- e. This stage will be applicable during both, Pre-bid / Pre-qualification and Financial Bidding Processes.

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5. Close for Bidding (Generation of Super Hash Values):

~~After the expiry of the cut - off time of Bid Preparation and Hash Submission stage to be completed by the Contractors has lapsed, the Tender will be closed by the Tendering Authority. The Tender Authority from Government College of Engineering, Karad shall generate and digitally sign the Super Hash values (Seals).~~

6. Decryption and Re-encryption of Bids (submitting the Bids online):

~~After the time for generation of Super Hash values by the Tender Authority from Government College of Engineering, Karad. has lapsed, the Contractors have to make the online payment towards the fees of the Service Provider.~~

~~After making online payment towards Fees of Service Provider, the Contractors are required to decrypt their bid data using their Digital Certificate and immediately re-encrypt their bid data using the Public Key of the Tendering Authority. The Public Key of the Tendering Authority is attached to the Tender during the Close for Bidding stage.~~

Note:- ~~The details of the Processing Fees shall be verified and matched during the Technical Opening stage.~~

~~At this time, the Contractors are also required to upload the files for which they generated the Hash values during the Bid Preparation and Hash Submission stage.~~

~~The Bid Data and Documents of only those Contractors who have submitted their Bid Hashes (Seals) within the stipulated time (as per the Tender Time Schedule), will be available for decryption and re-encryption and to upload the relevant documents from Briefcase. A Contractor who has not submitted his Bid Preparation and Hash Submission stage within the stipulated time will not be allowed to decrypt / reencrypt the Bid data / submit documents during the stage of Decryption and Encryption of Bids (submitting the Bids online).~~

7. Shortlisting of Contractors for Financial Bidding Process:

The Tendering Authority will first open the Technical Bid documents of all Contractors and after scrutinizing these documents will shortlist the Contractors who are eligible for Financial Bidding Process. The shortlisted Contractors will be intimated by email.

8. Opening of the Financial Bids:

The Contractors may remain present in the Office of the Tender Opening Authority at the time of opening of Financial Bids. However, the results of the Financial Bids of all Contractors shall be available on e-Tendering Portal immediately after the completion of opening process.

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9. Tender Schedule (Key Dates):

The Contractors are strictly advised to follow the Dates and Times allocated to each stage under the column "Contractor Stage" as indicated in the Time Schedule in the Detailed Tender Notice for the Tender. All the online activities are time tracked and the Electronic Tendering System enforces time-locks that ensure that no activity or transaction can take place outside the Start and End Dates and Time of the stage as defined in the Tender Schedule.

At the sole discretion of the Tender Authority, the time schedule of the Tender stages may be extended.

A) Terms and Conditions for Online-Payments

The Terms and Conditions contained herein shall apply to any person ("User") using the services of Government College of Engineering, Karad Maharashtra, hereinafter referred to as "Merchant", for making Tender fee and Earnest Money Deposit (EMD) payments through an online Payment Gateway Service ("Service") offered by S.B.I. Bank in association with E-Tendering Service provider and Payment Gateway Service provider through Government College of Engineering, Karad Maharashtra website i.e. <https://mahatenders.gov.in>. Each User is therefore deemed to have read and accepted these Terms and Conditions.

B) Privacy Policy

The Merchant respects and protects the privacy of the individuals that access the information and use the services provided through them. Individually identifiable information about the User is not willfully disclosed to any third party without first receiving the User's permission, as covered in this Privacy Policy.

This Privacy Policy describes Merchant's treatment of personally identifiable information that Merchant collects when the User is on the Merchant's website. The Merchant does not collect any unique information about the User (such as User's name, email address, age, gender etc.) except when you specifically and knowingly provide such information on the Website. Like any business interested in offering the highest quality of service to clients, Merchant may, from time to time, send email to the User and other communication to tell the User about the various services, features, functionality and content offered by Merchant's website or seek voluntary information from The User.

Please be aware, however, that Merchant will release specific personal information about the User if required to do so in the following circumstances:

- a) in order to comply with any valid legal process such as a search warrant, statute, or court order, or available at time of opening the tender
- b) if any of User's actions on our website violate the Terms of Service or any of our guidelines for specific services, or
- c) to protect or defend Merchant's legal rights or property, the Merchant's site, or the Users of the site or;
- d) to investigate, prevent, or take action regarding illegal activities, suspected fraud, situations involving potential threats to the security, integrity of Merchant's website/offerings.

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C) General Terms and Conditions for E-Payment

1. Once a User has accepted these Terms and Conditions, he/ she may register on Merchant's website and avail the Services.
2. Merchant's rights, obligations, undertakings shall be subject to the laws in force in India, as well as any directives/ procedures of Government of India, and nothing contained in these Terms and Conditions shall be in derogation of Merchant's right to comply with any law enforcement agencies request or requirements relating to any User's use of the website or information provided to or gathered by Merchant with respect to such use. Each User accepts and agrees that the provision of details of his/ her use of the Website to regulators or police or to any other third party in order to resolve disputes or complaints which relate to the Website shall be at the absolute discretion of Merchant.
3. If any part of these Terms and Conditions are determined to be invalid or unenforceable pursuant to applicable law including, but not limited to, the warranty disclaimers and liability limitations set forth herein, then the invalid or unenforceable provision will be deemed superseded by a valid, enforceable provision that most closely matches the intent of the original provision and the remainder of these Terms and Conditions shall continue in effect.
4. These Terms and Conditions constitute the entire agreement between the User and Merchant. These Terms and Conditions supersede all prior or contemporaneous communications and proposals, whether electronic, oral, or written, between the User and Merchant. A printed version of these Terms and Conditions and of any notice given in electronic form shall be admissible in judicial or administrative proceedings based upon or relating to these Terms and Conditions to the same extent and subject to the same conditions as other business documents and records originally generated and maintained in printed form.
5. The entries in the books of Merchant and/or the Payment Gateway Service Providers kept in the ordinary course of business of Merchant and/or the Payment Gateway Service Providers with regard to transactions covered under these Terms and Conditions and matters therein appearing shall be binding on the User and shall be conclusive proof of the genuineness and accuracy of the transaction.
6. **Refund for Charge Back Transaction:** In the event there is any claim for/ of charge back by the User for any reason whatsoever, such User shall immediately approach Merchant with his/ her claim details and claim refund from Merchant alone. Such refund (if any) shall be affected only by Merchant via payment gateway or by means of a demand draft or such other means as Merchant deems appropriate. No claims for refund/ charge back shall be made by any User to the Payment Gateway Service Provider(s) and in the event such claim is made it shall not be entertained.
7. In these Terms and Conditions, the term "**Charge Back**" shall mean, approved and settled credit card or net banking purchase transaction(s) which are at any time refused, debited or charged back to merchant account (and shall also include similar debits to Payment Gateway Service Provider's accounts, if any) by the acquiring bank or credit card company for any reason whatsoever, together with the bank fees, penalties and other charges incidental thereto.

8. Refund for fraudulent/duplicate transaction(s): The User shall directly contact Merchant for any fraudulent transaction(s) on account of misuse of Card/ Bank details by a fraudulent individual/party and such issues shall be suitably addressed by Merchant alone in line with their policies and rules.
9. Server Slow Down/Session Timeout: In case the Website or Payment Gateway Service Provider's webpage, that is linked to the Website, is experiencing any server related issues like 'slow down' or 'failure' or 'session timeout', the User shall, before initiating the second payment, check whether his/her Bank Account has been debited or not and accordingly resort to one of the following options:
 - i. In case the Bank Account appears to be debited, ensure that he/ she does not make the payment twice and immediately thereafter contact Merchant via e-mail or any other mode of contact as provided by Merchant to confirm payment.
 - ii. In case the Bank Account is not debited, the User may initiate a fresh transaction to make payment.

However, the User agrees that under no circumstances the Payment Gateway Service Provider shall be held responsible for such fraudulent/duplicate transactions and hence no claims should be raised to Payment Gateway Service Provider. No communication received by the Payment Gateway Service Provider(s) in this regard shall be entertained by the Payment Gateway Service Provider.

D) Limitation of Liability

1. Merchant has made this Service available to the User as a matter of convenience. Merchant expressly disclaims any claim or liability arising out of the provision of this Service. The User agrees and acknowledges that he/ she shall be solely responsible for his/ her conduct and that Merchant reserves the right to terminate the rights to use of the Service immediately without giving any prior notice thereof.
2. Merchant and/or the Payment Gateway Service Providers shall not be liable for any inaccuracy, error or delay in, or omission of (a) any data, information or message; or (b) the transmission or delivery of any such data, information or message; or (c) any loss or damage arising from or occasioned by any such inaccuracy, error, delay or omission, non-performance or interruption in any such data, information or message. Under no circumstances shall the Merchant and/or the Payment Gateway Service Providers, its employees, directors, and its third party agents involved in processing, delivering or managing the Services, be liable for any direct, indirect, incidental, special or consequential damages, or any damages whatsoever, including punitive or exemplary arising out of or in any way connected with the provision of or any inadequacy or deficiency in the provision of the Services or resulting from unauthorized access or alteration of transmissions of data or arising from suspension or termination of the Services.
3. The Merchant and the Payment Gateway Service Provider(s) assume no liability whatsoever for any monetary or other damage suffered by the User on account of:
 - (I) the delay, failure, interruption, or corruption of any data or other information transmitted in connection with use of the Payment Gateway or Services in connection thereto; and/ or

- (II) any interruption or errors in the operation of the Payment Gateway.
4. The User shall indemnify and hold harmless the Payment Gateway Service Provider(s) and Merchant and their respective officers, directors, agents, and employees, from any claim or demand, or actions arising out of or in connection with the utilization of the Services.

The User agrees that Merchant or any of its employees will not be held liable by the User for any loss or damages arising from your use of, or reliance upon the information contained on the Website, or any failure to comply with these Terms and Conditions where such failure is due to circumstance beyond Merchant's reasonable control.

E) Miscellaneous Conditions:

1. Any waiver of any rights available to Merchant under these Terms and Conditions shall not mean that those rights are automatically waived.
2. The User agrees, understands and confirms that his/ her personal data including without limitation details relating to debit card/ credit card transmitted over the Internet may be susceptible to misuse, hacking, theft and/ or fraud and that Merchant or the Payment Gateway Service Provider(s) have no control over such matters.
3. Although all reasonable care has been taken towards guarding against unauthorized use of any information transmitted by the User, Merchant does not represent or guarantee that the use of the Services provided by/ through it will not result in theft and/or unauthorized use of data over the Internet.
4. The Merchant, the Payment Gateway Service Provider(s) and its affiliates and associates shall not be liable, at any time, for any failure of performance, error, omission, interruption, deletion, defect, delay in operation or transmission, computer virus, communications line failure, theft or destruction or unauthorized access to, alteration of, or use of information contained on the Website.
5. The User may be required to create his/ her own User ID and Password in order to register and/ or use the Services provided by Merchant on the Website. By accepting these Terms and Conditions the User agrees that his/ her User ID and Password are very important pieces of information and it shall be the User's own responsibility to keep them secure and confidential. In furtherance hereof, the User agrees to;
 - i. Choose a new password, whenever required for security reasons.
 - ii. Keep his/ her User ID & Password strictly confidential.
 - iii. Be responsible for any transactions made by User under such User ID and Password.

The User is hereby informed that Merchant will never ask the User for the User's password in an unsolicited phone call or in an unsolicited email. The User is hereby required to sign out of his/ her Merchant account on the Website and close the web browser window when the transaction(s) have been completed. This is to ensure that others cannot access the User's personal information and correspondence when the User happens to share a computer with someone else or is using a computer in a public place like a library or Internet café.

F) Debit/ Credit Card, Bank Account Details

1. The User agrees that the debit/credit card details provided by him/ her for use of the aforesaid Service(s) must be correct and accurate and that the User shall not use a debit/ credit card, that is not lawfully owned by him/ her or the use of which is not authorized by the lawful owner thereof. The User further agrees and undertakes to provide correct and valid debit/credit card details.
2. The User may make his/ her payment (Tender Fee/ Earnest Money deposit) to Merchant by using a debit/credit card or through online banking account. The User warrants, agrees and confirms that when he/ she initiates a payment transaction and/or issues an online payment instruction and provides his/ her card/ Bank details:
 - i. The User is fully and lawfully entitled to use such credit/ debit card, bank account for such transactions;
 - ii. The User is responsible to ensure that the card/ bank account details provided by him/ her are accurate;
 - iii. The User is authorizing debit of the nominated card/ bank account for the payment of Tender Fee and Earnest Money Deposit
 - iv. The User is responsible to ensure sufficient credit is available on the nominated card/ bank account at the time of making the payment to permit the payment of the dues payable or the bill(s) selected by the User inclusive of the applicable Fee.

Personal Information

3. The User agrees that, to the extent required or permitted by law, Merchant and/ or the Payment Gateway Service Provider(s) may also collect, use and disclose personal information in connection with security related or law enforcement investigations or in the course of cooperating with authorities or complying with legal requirements.
4. The User agrees that any communication sent by the User vide e-mail, shall imply release of information therein/ therewith to Merchant. The User agrees to be contacted via e-mail on such mails initiated by him/ her.

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5. In addition to the information already in the possession of Merchant and/ or the Payment Gateway Service Provider(s), Merchant may have collected similar information from the User in the past. By entering the Website, the User consents to the terms of Merchant's information privacy policy and to our continued use of previously collected information. By submitting the User's personal information to us, the User will be treated as having given his/her permission for the processing of the User's personal data as set out herein.
6. The User acknowledges and agrees that his/ her information will be managed in accordance with the laws for the time in force.

G) Payment Gateway Disclaimer

The Service is provided in order to facilitate payment of Tender Fees/ Earnest Money Deposit online. The Merchant or the Payment Gateway Service Provider(s) do not make any representation of any kind, express or implied, as to the operation of the Payment Gateway other than what is specified in the Website for this purpose. By accepting/ agreeing to these Terms and Conditions, the User expressly agrees that his/ her use of the aforesaid online payment service is entirely at own risk and responsibility of the User.

3.4 **ONLINE ENVELOPE No. 1: Civil Works** (Documents Required)

The bidder must purchase the bidding documents via online mode by filling the cost of Tender.

The first envelope "Envelope No.1" shall contain the following documents.

3.4.1 The EMD of **Rs.328000.00** will be paid via online (NEFT / RTGS through e-payment gateway mode). EMD Exemption certificate will not be accepted.

3.4.2 Scanned copy of original Valid certificate as a Registered in the appropriate class with the **Government of Maharashtra, Public Works Department** OR Reputed and experienced Contractors/ Firms who fulfill the terms and condition of tender and having experience of similar type of work. (Joint Venture is not allowed)

3.4.3 Use of Specialized Machinery

(1) Scanned copy of proof of Ownership: - (Ownership)

(a) Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic meter per hour capacity of any standard company. (Owned) OR Fully Automatic Micro Processor based PLC with SCADA Enabled Reversible Drum Type Concrete Mixer of minimum 12 to 15 cum/hr capacity of any standard company. (Owned) (b) Sand screening cum washing unit electrically or diesel operated 4/6 cubic meter per hour capacity. (Owned) (c) Compression Testing Machine (CTM) for the testing cement mortar, concrete at the site, linked with "SCADA". (Owned) (d) Transit mixers and concrete pumps of desired number and capacity with SCADA (Owned).

(Scanned copy of proof of ownership i.e. Tax invoices Cum delivery challan shall have to be Uploaded.)

Note: 1. The life of new machinery will be considered as 15 years. 2. There will no need of checking by SE (Mechanical) for first 10 years. 3. After 10th year, the machinery shall be checked and certified for its fitness by SE Mechanical/ACE (Mechanical) every year till the 15th year.

(2) Scanned copy of original valid certificate issued by the Assistant Chief Engineer (Mech.) of Public Works Departments / Region, to the effect that specialized Machinery enlisted in Statement No. 2 'A' attached herewith are in "Efficient" - "Working Condition" and in conformity with MOST Specifications, if Concerned Machinery is older more than 10 years from the date of original Purchase, must be enclosed in Envelope No. 1. In absence of this Certificate, Envelope No. 2 will not be opened.

This information shall be given by the contractor in Envelope No. 1 correctly and completely otherwise his Envelope No. 2 will not be opened.

Note: Please see the Additional General Conditions and Specifications Clause No. 41 with Supervising Control and Data Acquisition for Concrete Works. (with SCADA).

3.4.4 Details of Income Tax Circle or ward of the district in which the tenderer is assessed to Income Tax, Tenderer's PAN No. and complete postal address with Pin Code and telephone Numbers. Scanned copy of Income Tax Return for the immediate previous financial year.

3.4.5 Scanned copy of Turnover certificate during last Seven years certified by the Chartered Accountant.

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3.4.6 Scanned copy of original valid **Goods and Service Tax (GST) registration certificate.**

3.4.7 Scanned copy of a list of modern machinery and plants immediately available with the tenderer for use on this work and list of machinery proposed to be utilized on this work but not immediately available and manner in which it is proposed to be procured (in Form No. 2, 2A & 2B)

3.4.8 Details of work done during last Seven years with the value of work unfinished. (Information to be given in Form No. VI)

3.4.9 Details of work of similar type carried out by the contractor. (in Form No.III)

Note: For **3.4.8** and **3.4.9** Supporting Certificates of Govt. works should be signed by not below the rank of Executive Engineer. Certificates of non-govt. works will be accepted subject to Supporting Certificate should be signed by not below the rank of Executive Engineer / Chartered Engineer / Registered Architect. The work done shown in these certificates shall tally with the certificate issued by the Chartered Accountant. The value of existing commitments of Govt. works shall be certified by the Executive Engineers or in case of Private Work Certificates from equivalent officers shall be countersigned by the Chartered Accountant. The contractor shall submit a self-certified calculation of bid capacity based on above documents. Also, for private works bidder have to submit the supporting agreement copy in between owner / agency and contractor without which certificate for non-Govt. works will not be considered. **(Scanned copy of Certificates / Copies of supporting agreements should be uploaded/ submitted.)**

3.4.10 Details of list of works in hand and works tendered for. (Information to be given in Performa of Form No. I)

3.4.11 Details of works carried out in the Interior, Backward and Hilly Area during the preceding Seven years (in Form No. IV). (if applicable).

3.4.12 Details of Technical Personnel on the rolls of the tenderer. (Information to be given in Performa of Form No. V)

The contractor shall deploy following key personnel on the contract, when the work is in progress. The Frequency of Attendance shall be as below.		
Contractor Technical staff	Min Qualification needed.	No of Technical Persons/Staff.
Project Incharge (Weekly)	BE /B-Tech. Civil, Min 10 yrs	1
Full time Technical Staff on site required		
Resident Engineer (daily)	BE /B-Tech. Civil, Min 5 yrs	1
Site Supervisor (daily)	Diploma Civil, Min 2 yrs	1

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Plant/SCADA system supervisor (daily)	Diploma/ITI Min 2 yrs	1
<p>The contractor shall submit the list of Technical Staff with their name and qualifications/ experience after work order issued and before the starting of work. Once the list is approved by engineer in charge it should not be changed without his prior approval. The list so approved of the key personnel their required data shall be entered in the attendance machine prescribed below.</p> <p>To ensure Attendance of above key personal the contractor shall install face recognition-based GPS AND SCADA ENABLED attendance machine on site and plant. The location of such machine shall be got approved from the engineer in charge. Key personal shall register his attendance as many times as instructed by engineer in charge. The analysis of attendance of these key personal so registered shall be presented/ mailed to engineer in charge and his representative in the format and frequency prescribed by engineer in charge. If after analysis of the attendance data if it is found the item of work is executed without attendance of the key personal the work so executed shall be rejected.</p>		

3.4.13 Scanned copy of original Registered Partnership Deed, Memorandum of Articles of Association, if the tenderer is a Partnership Firm, Joint Stock Company and Power of Attorney and Firm Registration Certificate if any.

3.4.14 Scanned copy of Notarized Affidavit in respect of genuineness of documents contained in the Envelope No. 1 in the prescribed proforma provided with Tender Set on Stamp Pager of Rs.100/- (Proforma of Affidavit is attached with Tender).

This affidavit is also to be submitted physically as per schedule given in tender in original and will be the part and parcel of contract agreement.

Contractor will be solely responsible and liable for action under Indian Penal Code for uploading or physical submission of any false/ fraudulent document/ information of envelope No1& 2.

Contractor will be solely responsible and also liable for action under Indian Penal Code for submission of any false information, false bills/ invoice/ vouchers of purchase of material in supporting proof of purchase, proof of testing/test results and any other required documents submitted by his staff/representative or by himself or subletting company/contractor during contract period or even after completion of work till finalization of bill and completion of defect liability period.

If false information/ documents are submitted as mentioned above, the contractor will be blacklisted and if contract is at initial stage, then such contract will be terminated and no any compensation will be payable on any account to the contractor.

Government College of Engineering, Karad will not be responsible for any complications due to submission of false/ fraudulent documents by the contractor as mentioned above.

3.4.15 To qualify for award of the contract, Integrity pact on plain paper shall be submitted by the Bidder with the Bid duly signed by authorized signatory and shall be part of the contract agreement. (Appendix - Integrity Pact Page No 43 to 50)

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Post Qualification Clause:

3.4.16 The tenderer will be qualified only if their available bid capacity is more than the total estimated value of works for which he has offered his bid. The available bid capacity will be calculated as under:

Assessed Available Bid Capacity = $(A \times N \times 2) - B$

Where,

A = Maximum value of Civil Engineering works executed in any one year during the last Seven years (updated to **2023-2024 level**)

N = Number of years prescribed for completion of works for which bid are invited.

B = Value at **2023-2024** price level, of existing commitments and ongoing work to be completed during the next **24 (Twenty-Four) months**.

Note: The statement showing the value of existing commitments and ongoing works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer-in-charge, not below the rank of an Executive Engineer.

3.4.17 To qualify for award of the contract, each Tenderer in his name should have in the **Last Seven Years**.

- a) Achieved a minimum annual financial turnover (in all Classes of civil engineering construction work only) of **Rs. 243.00 lakhs** in any one year. In support of this, scanned copy of Annual Audit Report certified by the Chartered Accountant should be produced.

Condition of Similar Work as Per Circular 25.10.2019

- b) Satisfactory completed (From start to finish) during last Seven years as a prime contractor at least 3 (Three) similar work value of each work not less than **Rs.259.00 Lakhs** Financial turnover and cost of completed works of previous years shall be given weightage of 10% per year based on Rupee value to bring them to **2023-24** price level. (In from No.VI)

OR

Satisfactory completed (From start to finish) during last Seven years as a prime contractor at least 2 (Two) similar work value of each work not less than **Rs.324.00 Lakhs** Financial turnover and cost of completed works of previous years shall be given weightage of 10% per year based on Rupee value to bring them to **2023-24** price level. (In from No.VI)

OR

Satisfactory completed (From start to finish) during last Seven years as a prime contractor at least 1 (One) similar work value of work not less than **Rs.518.00 Lakhs** in not more than 1 (One) contract. Financial turnover and cost of completed works of previous years shall be given weightage of 10% per year based on Rupee value to bring them to **2023-24** price level. (In from No.VI)

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- c) Executed in any one year, in last Seven years the following minimum quantities of work **(In Form No. VII)** (Approximately 30% of tendered quantity)

i)	Cement Concrete M-15 and above	353.00	Cubic Meter
ii)	TMT FE 500 Steel	37.00	Metric Tonne
iii)	Burnt Brick masonry	352.00	Cubic Meter
iv)	Cement Plaster	5423.00	Square Meter
v)	Flooring	113.00	Square Meter

(Note: Quantity certificate should be signed by not below the rank of Executive Engineer / (Chartered Engineer/ Registered Engineer in case of Private Work). Scanned copy of Certificate should be attached.)

This information shall be given by the contractor in Envelope No. 1 correctly and completely otherwise his Envelope No. 2 will not be opened.

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3.5 ONLINE ENVELOPE No. 2 TENDER (FINANCIAL BID) **(List of Documents)**

A) Offer to be submitted online. The contractor shall quote for the work as per details given in the main tender and also based on the detailed set of conditions (CSD) / Additional stipulations / Deviations made by the Department as uploaded by the department after Pre-Tender conference. Offer shall be unconditional.

B) Upload Tender copy issued by the department and digitally signed by the contractor.

C) Upload common set of deviation (CSD/Additional Stipulations / Deviations made by the department (if any).

Note: The bidder shall fill and upload the Technical and Financial bid in 'edit attachment option' and shall upload the supporting document in 'General Document Option' of e tendering portal and submit the bid by using his Class II/III Digital Signature.

3.6 SUBMISSION OF TENDER: -

Refer to Section '**Guidelines to Bidders on the operations of Electronic Tendering System of Government of Maharashtra**' for Details.

3.7 OPENING OF TENDER: -

On the date specified in the Tender Schedule following procedure will be adopted.

(A) ENVELOPE No.1: - (Documents)

First of all Envelope No.1 of the tender will be opened online to verify its contents as per requirements. If the various documents contained in this envelope do not meet the requirements of the Department, a note will be recorded accordingly by the tender opening authority and the said tenderers Envelope No. 2 will not be considered for further action and the same will be recorded.

The decision of the tender opening authority in this regard will be final and binding on the contractors.

(B) ENVELOPE No.2: (Financial Bid)

This envelope shall be opened online immediately after opening of Envelope No.1, only if contents of Envelope No.1 are found to be acceptable to the Department. The tendered rates in Schedule 'B' or percentage above/below the estimated rates shall then be read out. in the presence of bidders who remain present at the time of opening of Envelope No.2.

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4.0 EARNEST MONEY:

- (i) Earnest money of Rs. 328000.00/- shall be paid via online using NEFT/RTGS or payment gateway mode.
After Tender opening, the EMD of the unsuccessful bidder will be returned to account provided by the bidder during the bid preparation as given in challan under Beneficiary Account Number.
- (ii) Earnest money exemption certificate will not be accepted in lieu Earnest Money Deposit.
- (iii) The amount will be refunded to the unsuccessful tenderers on deciding about the acceptance or otherwise of the tender. In case of successful tenderer, it will be refunded on his paying initial Security Deposit and completing the tender documents in form B-1.

5.0 SECURITY DEPOSIT:

5.1 The successful shall have to pay 50% initial security deposit in cash or in shape of National Saving Certificate or Fixed Deposit Receipt or Bank Guarantee **Payable at Karad** pledged in favour of **Government College of Engineering, Karad** or Bank Guarantee **Payable at Karad** from a Nationalized / Schedule Banks in the enclosed form and complete the contract documents failing which his earnest money will be forfeited to Government. The balance 50% security deposit will be recovered from the R. A Bill at 1% of the bill amount. Amount of total security deposit to be paid shall be 2% of the cost of accepted tender or estimated cost put to tender whichever is higher. Initial Security Deposit may be in Bank Guarantee Form in format of tender document for full period of completion of work and it should be extendable upto expiry of valid extension if any as directed by Engineer-in charge.

5.2 All compensation or other sums payable by the Contractor under the terms of this contract or any other contract or on any account may be deducted from his Security Deposit or from any sums which may be due to him or may become due to him by Government on any account and in the event of the security being reduced by reason of any such above noted deductions, the Contractor shall within 10 days of receipt of notice of demand from the Engineer-in-charge make good the deficit.

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5.3 There shall be no liability on the Department to pay any interest on the Security Deposited by or recovered from the Contractor.

5.4 Refund of Security Deposit as per as per PWD Circular CAT-2017/Pra.Kra.8/ Bldg-2 dated 29.01.2019:

If Defect Liability Period as per Clause 20 is **more than 2 (Two) Years**, 90% of Security Deposit will be **refunded after 2 (two) years** from completion of work and balance 10% of Security Deposit can be replaced with DD/FDR/BG of any Nationalized Bank validity of BG/FDR must be 1 (one) month after completion of Defect Liability Period (i.e. the date up to which contractors has agreed to maintained the work in good order). This balance 10% Security Deposit shall be refunded/ released after completion of Defect Liability Period prescribed for this contract in accordance with the provisions in Clause 1 and 20 of the contracts (i.e. the date up to which contractors has agreed to maintained the work in good order) and verification of quality of work by competent Authority as per PWD G.R. No. Sankirna - 2018/ Pra.Kra. 151 / Bldg-2 dated 14.01.2019.

If Defect Liability Period as per Clause 20 is **2 (Two) Years or less than 2 (Two) Years**, 100% Security Deposit shall be refunded/ released after completion of Defect Liability Period prescribed for this contract in accordance with the provisions in Clause 1 and 20 of the contract (i.e. the date up to which contractors has agreed to maintained the work in good order) and verification of quality of work by competent Authority as per PWD G.R. No. Sankirna - 2018/ Pra.Kra. 151 / Bldg-2 dated 14.01.2019.

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6.00 ADDITIONAL PERFORMANCE SECURITY; - Demand Draft / FDR / BG of any Nationalized/Scheduled Bank for Additional Performance Security Deposit for Quoting Offer More than 1% below the tender cost. (As Per Govt.Letter. Dated 27.09.2018, and No. CAT 2017/PRA.KRA 8/ Bldg-2/dt. 26.11.2018 and No. CAT 2017/PRA.KRA 08/ Bldg-2/dt. 07.03.2019).

As per the directives laid down in **Government of Maharashtra, Public Works Department**, Marathi Resolution No. CAT 2017/PRA.KRA 8/ Bldg-2/dt. 27.09.2018, and No. CAT 2017/PRA.KRA 8/ Bldg-2/dt. 26.11.2018, If the bidder intends to quote his offer **below more than 1 % of the Bid cost** of the department then such bidder should submit **original Demand Draft / FDR / BG** from any Schedule Bank or Nationalized Bank against **Additional Performance Security within 8 days** as mentioned below.

- A) *If the Bidder intends to quote his offer below more than 1 % upto 10 % of the estimated cost put to Bid then he should submit a **Demand Draft / FDR / BG of any Nationalized/Scheduled Bank** amounting to 1% of the Bid cost of the department towards Additional Performance Security.*
- B) *If the Bidder intends to quote his offer more than 10 % below the estimated cost put to Bid then he should submit Additional Performance security 1 % for every percent after 10 % below percentage in addition to the cost of 1% Additional performance security mentioned above clause A for quoting below offer.*

(eg. If Bidder quotes his offer 15 % below the estimated cost *put to bid*, then he should submit $15 - 10 = 5$ % Additional Performance security + 1% Additional Performance security = 6 % amount of the *cost put to bid* as a total Additional Performance Security.)

- C) *If the Bidder intends to quote his offer more than 15 % below the estimated cost put to Bid then he should submit Additional Performance security 2 % for every percent after 15 % below percentage in addition to the cost of 1% Additional performance security mentioned above clause A and 5 % Additional performance security mentioned above clause B for quoting below offer.*

(eg. If Bidder quotes his offer 19 % below the estimated cost *put to bid*, then he should submit $19 - 15 = 4$ % $\times 2 = 8$ % Additional Performance security + 1% Additional Performance security as per Clause A and 5 % Additional Performance security as per Clause B i.e. Total $(1+5+8) = 14$ % amount of the *cost put to bid* as a total Additional Performance Security.)

If the amount of Additional Performance Security as required above (under A ,B & C) is not submitted by the bidder within 8 days, then offer of lowest tenderer will be treated as "Non Responsive" and will not be considered and rejected. Second lowest bidder will be asked in writing to reduce his offer up to offer of the lowest tenderer. If second lowest bidder is ready to reduce his offer up to the offer of lowest bidder, then this reduced offer of second lowest tenderer will be considered if it is acceptable.

- 1) Such **Demand Draft / FDR / BG of any Nationalised/Scheduled Bank** shall strictly issue only by the Nationalized Bank or Scheduled Bank in favour of in the **Principal, Government College of Engineering, Karad.**

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- 2) The **Demand Draft / FDR / BG of any Nationalised/ Scheduled Bank** should bear the MICR and IFSC Code Number of the issuing bank.
- 3) If it is found that the **Demand Draft / FDR / BG of any Nationalised/ Scheduled Bank** as above submitted by the bidder is False / Forged then the Earnest Money submitted by such bidder shall be Forfeited and his registration as a contractor of Public Works Department **will be suspended & he will be entered in the Black List.**

The amount of the Additional performance security shall be refunded as per the tender conditions.

Non submission of additional security deposit/ performance security or submission of less amount of the additional performance security deposit by the bidder within 8 days shall be liable to summarily rejection of his tender.

6.1. This additional performance security deposit shall be extendable up to expiry of valid extensions if any and it shall be refunded along with the final bill, after satisfactory completion of work; the certificate of which shall be issued by the Principal, Government College of Engineering, Karad before releasing the additional security deposit.

7.00 DOWLOADING OF TENDER DOCUMENT

Information regarding contract as well as blank tender forms can be downloaded from the e-tendering website upon providing the details of the payment of cost as detailed in the N.I.T.

8.0 The tenders who do not fulfill the condition of the notification and the general rules and directions for the guidance of contractor in the agreement form or are incomplete in any respect are likely to be rejected without assigning any reason therefore.

9.0 (a) The Tenderers shall be presumed to have carefully examined the drawings, conditions and specifications of the work and have fully acquainted themselves with all details of the site, the conditions of rock and its joints, pattern, river, weather characteristics, labour conditions and in general with all the necessary information and data pertaining to the work, prior to tendering for the work.

9.1 (b) The data whatsoever supplied by the Institute along with the tender documents are meant to serve only as guide for the tenderers while tendering and the Institute cepts no responsibility whatsoever either for the accuracy of data or for their comprehensiveness.

10.0 The quarries for extraction of metal, murum etc. provided in the sanctioned estimate are as per survey conducted by the Institute. The Contractor should however examine these quarries and see whether full quantity of materials required for execution of the work strictly as per specification are available in these sources before quoting the rates. In case the materials are not available due to reasons whatsoever, the contractor will have to bring the materials from any other source with no extra cost to Government. The rates quoted, should therefore be for all leads and lifts from wherever the materials are brought at site of work and inclusive of royalty to be paid to the Revenue Department by the Contractor.

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

11.0 POWER OF ATTORNEY:

If the tenderers are a firm or company, they should in their forwarding letter mention the names of all the partners together with the name of the person who holds the power of Attorney, authorizing him to conduct all transactions on behalf of the body, along with the tender.

12.0 The contractor or the firms tendering for the work shall inform the Institute if they appoint their authorized Agent on the work.

13.0 No foreign exchange will be released by the Institute for the purchase of plants and machinery for the work by the Contractor.

14.0 Any dues arising out of contract will be recovered from the contractor as arrears of Land Revenue, if not paid amicably. Moreover, recovery of Government dues from the Contractors will be affected from the payment due to the Contractor from any other Government works under execution with them.

15.0 All pages of tender documents, conditions, specifications, correction slips etc. shall be initialled by the tenderer. The tender should bear full signature of the tenderer, or his authorized power of Attorney holder in case of a firm.

16.0 The Income Tax at 2.00 % including surcharge or percentage in force from time to time or at the rate as intimated by the competent Income Tax authority shall be deducted from bill amount whether measured bill, advance payment or ecured advance.

16.1 The rates quoted by the Contractor shall be exclusive GST but shall be deemed to be inclusive of other taxes, levies including royalty, cess that the contractor will have to pay for the performance of this contract. The employer will perform such duties in regard to the deduction of such taxes, as applicable at source as per applicable law. GST will be paid to contractors at prevailing rates on bill amount separately.

17.0 The successful tenderer will be required to produce, to the satisfaction of the specified concerned authority a valid concurrent license issued in his favour under the provisions of the Contract Labour (Regulation and Abolition) Act 11270 for starting the work. On failure to do so, the acceptance of the tender shall be liable to be withdrawn and also liable for forfeiture of the earnest money.

18.0 The tenderer shall submit the list of apprentices engaged by the Contractor under Apprentice Act.

19.0 VALIDITY PERIOD

The offer shall remain open for acceptance for minimum period of **90 days** from the Date of opening of Envelope No.2 (Financial Bid) and thereafter until it is withdrawn by the contractor by notice in writing duly addressed to the authority opening the tender and sent by Registered Post Acknowledgment due.

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

20.0 After completion of the e-tendering process, the successful bidder will have to submit the hard copy of downloaded tender document and drawings duly signed on each page by the contractor or his authorised signatory. The tender should bear full signature of the tenderer, or his authorized power of attorney holder in case of Firm.

21.0 महाराष्ट्र शासन, सार्वजनिक बांधकाम विभाग, शासन निर्णय क्रमांक निविदा २०१६/प्र.क्र.२०/शिकाना/इमा-२, मंत्रालय, नागपूर, दि:- ०९/१२/२०१६ Contractor shall submit a certificate to the effect that “All the payments to the labour/staff are made in bank accounts of staff linked to Unique Identification Number (AADHAR CARD).” The certificate shall be submitted by the contractor within 60 days from the commencement of contract. If the time period of contract is less than 60 days then such certificates shall be submitted within 15 days from the date of commencement of contract.

22.0 Uploading/ Submission of any false information, false bills/ invoice/ vouchers of purchase of material/ any other documents:

Contractor will be solely responsible and liable for action under Indian Penal Code for uploading or physical submission of any false/ fraudulent document/ information of envelope No 1& 2.

Contractor will be solely responsible and also liable for action under Indian Penal Code for submission of any false information, false bills/ invoice/ vouchers of purchase of material in supporting proof of purchase, proof of testing/ test results and any other required documents submitted by his staff/ representative or by himself or subletting company/ contractor during contract period or even after completion of work till finalization of bill and completion of defect liability period.

If false information/ documents are submitted as mentioned above, the contractor will be blacklisted and if contract is at initial stage, then such contract will be terminated and no any compensation will be payable on any account to the contractor.

Government College of Engineering, Karad will not be responsible for any complications due to submission of false/ fraudulent documents by the contractor as mentioned above.

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

परिशिष्ट - १

(१) मराठी

नमुना सत्यप्रतिज्ञापत्र (रु.१००/- च्या स्टॅम्प पेपरवर)
नोटरी केलेला सत्यप्रतिज्ञापत्र (Notarized Affidavit)

मी वय वर्षे राहणार..... या सत्यप्रतिज्ञा पत्राव्दारे लिहून देतो की, मी या फर्मचा / कंपनीचा मालक असून **CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA.** या कामासाठी निविदा सादर करित आहे. त्या निविदेच्या लिफाफा क्र. १ मध्ये जी कागदपत्र सादर केली आहेत ती खरी, बरोबर व पूर्ण आहेत, त्यामध्ये कोणत्याही त्रुटी, चुका नाहीत, याची मी खात्री केलेली असून असे शपथपूर्वक खालील अटी व शर्थासह मान्य करित आहे. या कागदपत्रांमध्ये काही चुकीची, दिशाभूल करणारी, खोटी व तसेच अपूर्ण माहिती आढळल्यास मी भारतीय दंडसंहिता अंतर्गत कायदेशीर कार्यवाहीस पात्र राहीन.

१. जर कंत्राट कालावधीदरम्यान, मी, माझ्या कार्यालयाने किंवा माझ्या कर्मचाऱ्यांनी सार्वजनिक बांधकाम विभागाला कोणतीही खोटी माहिती किंवा देयकासमवेत तसेच पत्रव्यवहारात खोटी / बनावट साहित्य खरेदीची कागदपत्रे सादर केली असल्यास, मी भारतीय दंडसंहिता अंतर्गत कायदेशीर कार्यवाहीस पात्र राहीन.

२. जर कंत्राट कालावधीदरम्यान आणि काम समाप्ती नंतर, अंतिम देयक देण्याच्या तारखेपर्यंत सादर केलेले कोणतेही कागदपत्रे खोटी / बनावट किंवा फसवी आढळल्यास, मी भारतीय दंडसंहिता अंतर्गत कायदेशीर कार्यवाहीस पात्र राहीन.

३. काम समाप्तीनंतर दोष दायित्व कालावधी दरम्यान किंवा त्यानंतर कोणत्याही वेळी, कोणतीही माहिती किंवा कागदपत्रे खोटी / बनावट, फसवी किंवा दिशाभूल करणारी आढळल्यास, मी भारतीय दंडसंहिता अंतर्गत कायदेशीर कार्यवाहीस पात्र राहीन.

कंत्राटदाराची सही / शिक्का

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

Annexure- I**(2) English****Notarized Affidavit (on Rs.100/- Stamp Paper)**

Name of Work: CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA.

I age
address

..... (Authorized signatory to sign the contract),
hereby submit, vide this affidavit in truth, that I am the owner of the contracting firm..... / authorized signatory and I am submitting the documents in envelope no.1 for the purpose of scrutiny of the contract. I hereby agree to the conditions mentioned below: -

1. I am liable for action under Indian Penal Code for submission of any false / fraudulent paper / information submitted in envelope no.1.

2. I am liable for action under Indian Penal Code if during contract period and defect liability period, any false information, false bill of purchases supporting proof of purchase, proof of testing submitted by my staff, subletting company or by myself, I will be liable for action under Indian Penal Code.

3. I am liable for action under Indian Penal Code if any papers are found false/ fraudulent during contract period and even after the completion of contract (finalisation of final bill).

(Signature of contractor)

(Seal of company)

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

"APPENDIX"

INTEGRITY PACT

Between

Government College of Engineering, Karad
Vidyanagar, Tal.-Karad, Dist.-Satara 415 124

Hereinafter referred to as

"Government College of Engineering, Karad"

and

[Insert the name of the Sole Bidder/ Lead partner of Joint Venture]

having its Registered Office at _
(Insert full Address)

and

[Insert the name of the Partner(s) of Joint Venture, as applicable]

having its Registered Office at _
(Insert full Address)

hereinafter referred to as

"The Bidder/ Contractor"

Preamble

Government College of Engineering, Karad intends to award, under laid down organizational procedures, contract(s) for

[Insert the name of the package]

(Signature)

(For and On behalf of Government College of Engineering, Karad)

(Signature)

(For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

Number

[Insert Specification Number of the package]

GOVERNMENT COLLEGE OF ENGINEERING, KARAD values full compliance with all relevant laws and regulations, and the principles economical use of resources and of fairness and transparency in its relations with its Bidders/ Contractors.

In order to achieve these goals, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** and the above-named Bidder/ Contractor enter into this agreement called '**Integrity Pact**' which will form a part of the bid.

It is hereby agreed by and between the parties as under: -

Section I -Commitments of the GOVERNMENT COLLEGE OF ENGINEERING, KARAD

(1) **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** commits itself to take all measures necessary to prevent corruption and to observe the following principle: -

- a) No employee of the **GOVERNMENT COLLEGE OF ENGINEERING, KARAD**, personally or through family members, will in connection with the tender, or the execution of the contract, demand, take a promise for or accept, for him/ herself or third person, any material or other benefit Which he/she is not legally entitled to.
- b) **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will, during the tender process treat all Bidder(s) with equity and fairness. **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- c) **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will exclude from evaluation of Bids it such employee(s) who has any personnel interest in the Companies / Agencies participating in the Bidding / tendering process.

(2) If Principal, G.C.E. Karad, Maharashtra Government obtains information on the conduct of any employee of **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, he will inform its Chief Vigilance Officer and in addition can initiate disciplinary actions under its Rules.

(Signature)

(For and On behalf of Government College of Engineering, Karad) (For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

Signature of Contractor

No. of Corrections

(Signature)

Principal
Govt.College of Engineering, Karad

Section II - Commitments of the Bidder/ Contractor

- (1) The Bidder/ Contractor commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- a) The Bidder/ Contractor will not, directly or through any other person or firm, offer, promise or give to **GOVERNMENT COLLEGE OF ENGINEERING, KARAD**, or to and of **GOVERNMENT COLLEGE OF ENGINEERING, KARAD's** employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange an advantage during the tender process or during the execution of the contract.
 - b) The Bidder/ Contractor will not enter into any illegal agreement or understanding, whether formal or informal with other Bidders/ Contractors. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission or bids or actions to restrict competitiveness or to introduce cartelization in the bidding process.
 - c) The Bidder/ Contractor will not commit any offence under the relevant Anti-corruption Laws of India; further the Bidder/ Contractor will not use for illegitimate purposes or for purpose of restrictive completion or personal gain, or pass on to others, any information or document provided by **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder/ Contractor of foreign origin shall disclose the name and address of the Agents/ representatives in India. If any, involved directly or indirectly in the Bidding. Similarly, the Bidder/ Contractor of Indian Nationality shall furnish the name and address of the foreign principle, if any, involved directly or indirectly in the Bidding.
 - e) The Bidder/ Contractor will, when presenting his bid, disclose any and all payments he has made, or committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and / or with the execution of the contract
 - f) The Bidder/ Contractor will not misrepresent facts or furnish false/ forged documents/ information's in order to influence the bidding process or the execution of the contract to the detriment of **Principal Government College of Engineering, Karad.**

(Signature)

(For and On behalf of Government College of Engineering, Karad)

Signature of Contractor

(Signature)

(For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

No. of Corrections

Principal
Govt.College of Engineering, Karad

- (2) The Bidder/ Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section III- Disqualification from tender process and exclusion from future contracts

- (1) If the Bidder/ Contractor before award, has committed a serious transgression through a violation of Section II or in any other from such as to put his reliability or credibility as Bidder into question, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** may disqualify the Bidder from the tender process or terminate the contract, if already signed, for such reason.
- (2) If the Bidder/Contractor has committed a transgression through a violation of Section II such as to put his reliability or credibility into question, the **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** may after following due procedures also exclude the Bidder/ Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case particularly the number of transgressions, the position of the transgressors within the company hierarchy or the Bidder/Contractor and the amount of the damage. The exclusion will be imposed for a minimum of 12 months and maximum of 3 years.
- (3) If the Bidder/Contractor can prove that he has restored/ recouped the damage caused by him and has installed a suitable corruption prevention system, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** may revoke the exclusion prematurely.

Section IV - Liability for violation of Integrity Pact

- (1) If **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** has disqualified the Bidder from the tender process prior to the award according to Section III, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** may forfeit the Bid Guarantee under the Bid.
- (2) If **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** has terminated the Contract under Section III, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** may forfeit the Contract Performance Guarantee of this contract besides resorting to other remedies under the contract.

Section V - Previous Transgression

- (1) The Bidder shall declare in his Bid that no previous transgression occurred in the last 3 years with any other Public Sector Undertaking or Government Department that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

(Signature)

(For and On behalf of Government College of Engineering, Karad)

Signature of Contractor

(Signature)

(For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

No. of Corrections

Principal
Govt.College of Engineering, Karad

Section VI - Equal treatment of all Bidders/ Contractors

- (1) The **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will enter into agreements with identical conditions as this one with all Bidders.
- (2) The **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will disqualify from the tender process any Bidders who does not sign this Pact violate its provisions.

Section VII - Criminal charges against violating Bidder/ Contractor

If the **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** obtains knowledge of conduct of a Bidder or Contractor or his subcontractor or of an employee or a representative or an associate of a Bidder or contractor or his Subcontractor which constitutes corruption, or if **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** has substantive suspicion in this regard, the **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will inform the Chief Vigilance Officer (CVO).

Section VIII - Independent External Monitor /Monitors

- 1) **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** has appointed a panel of Independent External Monitor (IEMs) for this Pact. with the approval of Central Vigilance Commission (CVC), Government of India, out of which one of the IEMs has been indicated in the NIT/IFB.
- 2) The IEM is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement. He has right of access to all project documentation. The IEM may examine any complaint received by him and submit a report to Principal, G.C.E. Karad, Maharashtra Government, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD**, at the earliest. He may also submit a report directly to the CVO and the CVC, in case of suspicion of serious irregularities attracting the provisions of the PC Act. However, for ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter shall be referred to the full panel of IEMs, who would examine the records, conduct the investigations and submit report to Principal, G.C.E. Karad, Maharashtra Government, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD**, giving joint findings.
- 3) The IEM is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Principal, G.C.E. Karad, Maharashtra Government, **GOVERNMENT COLLEGE OF ENGINEERING, KARAD**.

(Signature)

(For and On behalf of Government College of Engineering, Karad)

Signature of Contractor

(Signature)

(For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

No. of Corrections

Principal
Govt.College of Engineering, Karad

- 4) The Bidder(s)/Contractor(s) accepts that the IEM has the right to access without restriction to all documentation of **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** related to this contract including that provided by the Contractor/Bidder. The Bidder/ Contractor will also grant the IEM, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his documentation. The same is applicable to Subcontractors. The IEM is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ subcontractor(s) with confidentiality.
- 5) **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** will provide to the IEM information assought by him which could have an impact on the contractual relations between GOVERNMENT COLLEGE OF ENGINEERING, KARAD and the Bidder/ Contractor related to thiscontract.
- 6) As soon as the IEM notices, or believes to notice, a violation of this agreement, he will so inform the Principal, G.C.E. Karad, Maharashtra Government, GOVERNMENT COLLEGE OF ENGINEERING, KARAD and request the Principal, G.C.E. Karad, Maharashtra Government, GOVERNMENT COLLEGE OF ENGINEERING, KARAD to discontinue or corrective action, or to take other relevant action. The IEM can in this regard submit non- binding recommendations. Beyond this, the IEM has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the IEM shall give an opportunity to GOVERNMENT COLLEGE OF ENGINEERING, KARAD and the Bidder/ Contractor, as deemed fit, to present its case before making its recommendations to GOVERNMENT COLLEGE OF ENGINEERING, KARAD.
- 7) The IEM will submit a written report to the Principal, G.C.E. Karad, Maharashtra Government, GOVERNMENT COLLEGE OF ENGINEERING, KARAD within 8 to10 weeks from the date of reference or intimation to him by the **GOVERNMENT COLLEGE OF ENGINEERING, KARAD** and, should the occasion arise, submit proposals for correcting problematic situations.
- 8) If the IEM has reported to the Principal, G.C.E. Karad, Maharashtra Government, GOVERNMENT COLLEGE OF ENGINEERING, KARAD, a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Principal, G.C.E. Karad, Maharashtra Government, GOVERNMENT COLLEGE OF ENGINEERING, KARAD has not, within the reasonable time taken visible action to proceed against such offence or reported it to the CVO, the Monitor may also transmit this information directly to the CVC, Government of India.

(Signature)

(For and On behalf of Government College of Engineering, Karad)

(Signature)

(For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

9) The word '**IEM**' would include both singular and plural.

(*) *This Section shall be applicable for only those packages wherein the IEMs have been identified in section -I : Invitation for Bids and / or Clause ITB 9.3 in Section-III: Bid Data Sheets of Conditions of Contract, Volume-I of the Bidding Documents.*

Section IX - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor after the closure of the contract and for all other Bidder's six months after this Contract has been awarded.

Section X - Other Provisions

- (1) This agreement is subject of Indian Law Place of performance and jurisdiction is the establishment of **GOVERNMENT COLLEGE OF ENGINEERING, KARAD**, The Arbitration clause provided in the main tender document/ contract shall not be applicable for any issue/ dispute arising under Integrity Pact.
- (2) Changes and supplements as well as termination notices need to be made in writing.
- (3) If the Contractor is a partnership firm or a Consortium or Joint Venture, this agreement must be signed by all partners, Consortium members and Joint Venture partners.
- (4) Nothing this agreement shall affect the rights of the parties available under the General Conditions of Contract (GCC) and Special Conditions of Contract (SCC).
- (5) Views expressed or suggestions / submissions made by the parties and the recommendations of the CVO/IEM[#] in respect of the violation of this agreement shall not be relied on or introduced as evidence in the arbitral or judicial proceeding (arising out of arbitral proceedings) by the parties in connection with the disputes / differences arising out of the subject contract.

CVO shall be applicable for packages wherein IEM are not identified in Section IFB/ BDS of Condition of Contract, Volume-I. IEM shall be applicable for packages wherein IEM are identified in Section IFB/BDS of Condition of Contract, Volume-I.

(Signature)

(For and On behalf of Government College of Engineering, Karad)

Signature of Contractor

(Signature)

(For and On behalf of Bidder/ Partner(s) of Joint Venture/Contractor)

No. of Corrections

Principal
Govt.College of Engineering, Karad

- (6) Should one or several provisions of this agreement turn out to be invalid, the remainder for this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(Signature)
(For & On behalf of Government College of Engineering, Karad)

(Office Seal)

Name:
Designation:

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)

(Signature)
(For & On behalf of Bidder/Partner(s) of Joint Venture/Contractor)

(Office Seal)

Name:
Designation:

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

FORM - I

List of works tendered for and in hand as on the date of submission of the tender

Name of tenderer:

[illegible]

The statement should be supported by attested copies of certificates issued by Heads of offices not below the rank of Executive Engineer.

Signature of Contractor

No. of Corrections

Principal,
Government College of Engineering, Karad.

FORM – II
Details of plant and machinery immediately available with the tenderer for the work.

Name of tenderer:

Sr.No.	Name of equipment	No. ofUnits	Kind and make	Age and Condition	Present Location	Remarks

SPECIMEN FORM

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad.

STATEMENT NO. 2'A'
(Applicable for use of modern machinery for asphaltting is specified)
QUESTIONNAIRE ON MODERN MACHINERY:

(1) Proforma for information regarding **Ownership** machinery required for this work.

- (a) Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company. (Owned) OR Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company OR Fully Automatic Micro Processor based PLC with SCADA Enabled Reversible Drum Type Concrete Mixer of minimum 12 to 15 cum/hr capacity of any standard company. (Owned)
- (b) Sand screening cum washing unit electrically or diesel operated 4/6 cubic meter per hour capacity. (Owned)
- (c) Compression Testing Machine (CTM) for the testing cement mortar, concrete at the site, linked with "SCADA". (Owned)
- (d) Transit mixers and concrete pumps of desired number and capacity with SCADA (Owned).

(Scanned copy of proof of ownership i.e.Tax invoices Cum delivery challan shall have to be Uploaded.)

Question: 1

Is the above machinery at Sr. No. (1) and (2) is owned by you and available with you immediate deployment on this work?

If 'Yes' give following information.

Type of Machine	Number of Units	Name of work on which deployed present	Location	Output in tonnes of mix per day	Quantity in tonnes of hot mix balance for execution on works in hand.	Remarks

QUESTION: 2

If answer to Question 1 is 'No" the contractor

- a) The Contractor shall submit information as mentioned in 3.6.4 of detailed tender Notice to the contractor, and
- b) The contractor shall have to own this machinery and also the information mentioned in Question-1 above shall have to be attached.

along with this statement as well as their proof of ownership of machinery (i.e. attested copies of invoices) as well as the valid certificate issued by the Principal Govt. College of Engg. Karad to the effect that these machineries are in " Efficient Working Condition" and in conformity with M.O.S.T. Specifications. **The Life of new machinery will be considered as 15 years. 2) There will no need of checking by SE (Mechanical) for first 10 years. 3. After 10th year, the machinery shall be checked and certified for its fitness by SE Mechanical / ACE (Mechanical) every year till the 15th year.) After 15th Year, the Contractor will have to check machinery every year from SE / ACE (Mechanical) and produce his certificate of Fitness. The certificate will be required for these machineries where it is necessary and not issued by the RTO.**

Note : Please see the Additional General Conditions and Specifications clause No. 41 with Supervising Control and Data Acquisition for Concrete Works. (with SCADA).

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

(TO BE INCLUDED IN ENVELOPE NO. 1)

STATEMENT NO. 2 'B'

Details of Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company. (Owned) OR Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company OR Fully Automatic Micro Processor based PLC with SCADA Enabled Reversible Drum Type Concrete Mixer of minimum 12 to 15 cum/hr capacity of any standard company **available with the tenderer for this work.**

1. Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company. (Owned) OR Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company OR Fully Automatic Micro Processor based PLC with SCADA Enabled Reversible Drum Type Concrete Mixer of minimum 12 to 15 cum/hr capacity of any standard company.

- a. Name of Manufacturer :
- b. Date of Purchase :
- c. Present location :
- d. Name of work on which deployed :
- e. Name and address of Engineer - in - charge :
- f. Anticipated date of completion of work on which deployed. :

STATEMENT SHOWING DETAILS Sand screening cum washing unit electrically or diesel operated 4/6 cubic meter per hour capacity AVAILABLE WITH THE TENDERER REQUIRED FOR THIS WORK

Details of Sand screening cum washing unit electrically or diesel operated 4/6 cubic meter per hour capacity available with the tenderer for this work.

1. Sand screening cum washing unit electrically or diesel operated 4/6 cubic meter per hour capacity :
- a. Name of Manufacturer :
 - b. Date of Purchase :
 - c. Present location :
 - d. Name of work on which deployed :
 - e. Name and address of Engineer - in - charge :
 - f. Anticipated date of completion of work on which deployed. :

STATEMENT SHOWING DETAILS Compression Testing Machine (CTM) for the testing cement mortar, concrete at the site, linked with "SCADA" AVAILABLE WITH THE TENDERER REQUIRED FOR THIS WORK

Details of Compression Testing Machine (CTM) for the testing cement mortar, concrete at the site, linked with "SCADA". available with the tenderer for this work.

1. Compression Testing Machine :
- a. Name of Manufacturer :
 - b. Date of Purchase :
 - c. Present location :
 - d. Name of work on which deployed :
 - e. Name and address of Engineer - in - charge :
 - f. Anticipated date of completion of work on which deployed. :

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

SHOWING DETAILS OF Transit mixers and concrete pumps **WITH SCADA REQUIRED FOR**
THIS WORK

- 1. Transit mixers and concrete pumps with SCADA :
 - a. Name of Manufacturer :
 - b. Date of Purchase :
 - c. Present location :
 - d. Name of work on which deployed :
 - e. Name and address of Engineer - in - charge :
 - f. Anticipated date of completion of work on which deployed. :

Signature of Contractor

No. of Corrections

Principal
Govt.College of Engineering, Karad

FORM – III

Details of works of similar type and magnitude carried out by the Contractor

Name of the tenderer :

Sr.No.	Name of work	Cost of work	Date of starting	Stipulated date of period of completion	Actual date of completion	Remarks
						In support of the details entered in this statement, the tenderer shall attach the attested copies of the works done certificates signed by the authority not below the rank of Executive Engineer.
			SPECIMEN FORM			

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad.

FORM – IV

Details of works executed in the interior, backward and hilly areas during the preceding Seven years
(If applicable)

Name of tenderer:

Sr.No.	Name of work	Cost of work	Date of Starting	Stipulated date of completion	Actual date of completion	Remarks

SPECIMEN FORM

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad.

FORM – V

Details of Technical Personnel available with Contractor

Name of the Tenderer:

Sr.No.	Name and Designation	Qualification	Whether workingfield or office	Experience of execution of similar works	Period for which the person is working with the tenderer	Remarks

SPECIMEN FORM

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad.

FORM NO.VI

STATEMENT SHOWING WORK DONE IN ALL CLASSES OF CIVIL ENGINEERING CONSTRUCTION WORKS DURING
LAST SEVEN YEARS

NAME OF CONTRACTOR :-

Sr. No.	Name of work	Amount Put to Tender/ Tendered cost	Agreement No.	Date of Commencement	Amount of work done during each of last Seven years (Rs. in lakhs)							Amount of work still remaining to be executed 2022-2023	Remarks
					2017- 2018	2018- 2019	2019- 2020	2020- 2021	2021- 2022	2022- 2023	2023- 2024		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
				Total									In support of the details entered in this statement, the tenderer shall attach theattested copies of the worksdone certificates signed by the authority not below the rank of Executive Engineer.
				Multiplying factor for updating	1.95	1.77	1.61	1.46	1.33	1.21	1.1		
				Grand Total									

(1) Tenderer shall work out this Bid capacity on basis of highest amount "A" i.e. the total cost of work done in any one year out of the last Seven years and the amount "B" i.e. the total cost of works in hand as per Statement No. 1 and shall work out the Bid Capacity as below.
Bid Capacity = (A*N*2) - B

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad.

FORM NO.VII

Statement showing the quantities of specifies items executed by the tenderer in any one year of the last Seven years.

NAME OF TENDERER: -

Sr. No.	ITEM	Minimum quantity required to be executed in one year	Quantity executed by the tenderer in							Remarks
			2017- 2018	2018- 2019	2019- 2020	2020- 2021	2021- 2022	2022- 2023	2023- 2024	
1	2	3	4	5	6	7	8	9	10	11
i)	Cement Concrete M-15 and Above	353.00 Cubic Metre								
ii)	TMT FE 500 Steel	37.00 Metric Tonne			SPECIMEN FORM					In support of the details entered in this statement, the tenderer shall attach the attested copies of the works done certificates signed by the authority not below the rank of Executive Engineer.
iii)	Burnt Brick masonry	352.00 Cubic Metre								
iv)	Cement Plaster	5423.00 Square Meter								
v)	Flooring	113.00 Square Meter								

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad.

(On Stamp Paper of worth Rs. 100/-)

MODEL FORM OF BANK GUARANTEE BOND

In consideration of the Governor of Maharashtra (hereinafter referred to as "The Government") having agreed to exempt _____ (hereinafter referred to as "The Contractor") from depositing with the Government incash the sum

of Rs. _____ (Rupees only) being the security deposit payable by the Contractor to the Government under the terms and conditions of the agreement dated the _____ day of _____

_____ and made between the Government of the one part and the Contractor of the other part (hereinafter referred to as "the said agreement") for _____ as security for the observance and performance by the Contractor of the terms and conditions of the said agreement, on the contractor furnishing to the Government a guarantee in the prescribed form of scheduled bank in

India being in fact these present in the like sum of Rs. _____ (Rupees

_____ only). We _____ BANK / LIMITED registered in India under _____ Act and having one of our local Head Office at _____ do hereby:

1. Guarantee to the Government:

a) Due performance and observance by the Contractor of the terms, covenants and conditions on the part of the Contractor contained in the said agreement, AND

b) Due and punctual payment by the Contractor to the Government of all sums of money, losses, damages, cost charges, penalties and expenses payable to the Government by the Contractor under or in respect to the said agreement

2. Undertake to pay to the Government on demand and without demur and notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding filed in any court of tribunal relating thereto the said sum of Rs. _____ (Rupees _____ only) or such less sum may be demanded by the Government from us our liability hereunder being absolute and unequivocal and agree that.

3.a) The guarantee herein contained shall remain in full force and effect during the subsistence of the said agreement and that the same will continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been duly paid and its claims satisfied or discharged and till the Government certifies that the terms and conditions of the said agreement have been fully , properly carried out by the Contractor.

b) We shall not be discharged or released from the liability under this guarantee by reasons of

i) any change in the constitution of the bank or the Contractor or ;

Signature of Contractor

No. of Corrections

Principal

Government College of Engineering, Karad

- ii) any arrangement entered into between the Government and the Contractor with or without our consent;
 - iii) any for bearance of indulgence shown to the Contractor;
 - iv) any variation in the terms covenant or conditions contained in the said agreement;
 - v) any time given to the Contractor or ;
 - vi) any other conditions or circumstances under which, in law , a surety would be discharged.
- c) Our liability hereunder shall be joint and several with that of the Contractor as if we were principal debtors in respect of the said sum of Rs. _____(Rupees _____only) and
- d) We shall not revoke this guarantee during its currency except with the previous consent in writing of the Government.

IN WITNESS WHEREOF the common seal of _____ has been hereunto affixed this _____day of _____20___. The common seal of _____was pursuant to the resolution of the Board of Directors of the Company dated the _____day of _____herein affixed in The presence of

1. _____

2. _____

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad

ARTICLES OF AGREEMENT

(This document should be on Original Stamp Paper of Rs. 100/- not on Xerox copy)
(On Stamp Paper of worth Rs. 100/-) **if applicable.**

This Agreement of Hire of Machinery made and executed at _____ on this, the
_____ day of the month of _____ 20 .

BETWEEN:

1) Shri. / M/s _____

A Sole Trading concern Pvt. Ltd. Co. / Public Ltd. Co. / Partnership Firm
registered under the provisions of respective Acts in force and having his /their Office situated.

Who is a ,

- i) Sole Proprietor of the above-mentioned concern.
- ii) Partner of the above-mentioned partnership firm.
- iii) Holder of power attorney of the above-mentioned firm, Executive Director or Manager of the above-mentioned Company as approved by the present Board of Director of the above-mentioned Company.

Hereinafter for the sake of brevity referred to as " The Owner " (which expression shall, unless it be repugnant to the meaning of context thereof, mean and included the firm of all partners of the Firm, the company at material time and their successors).

Party of the First Part

AND

2) Shri. / M/s _____

A Sole Trading concern Pvt. Ltd. Co. / Public Ltd. Co. / Partnership Firm
registered under the provisions of respective Acts in force and registered Government
contractors registered in appropriate Class with Government of Maharashtra Having his /
their office situated at _____
and managed by Shri.

Who is a ,

- i) Sole Proprietor of the above-mentioned concern.
- ii) Partner of the above-mentioned partnership firm.
- iii) Holder of power attorney of the above-mentioned firm, Executive Director or Manager of the above-mentioned Company.

Hereinafter for the sake of brevity referred to as " The Hirer " (which expression shall, unless it be repugnant to the meaning of context thereof, mean and included the firm of all partners of the Firm, the company at material time and their successors).

Party of the Second Part

Signature of Contractor

No. of Corrections

Principal

Government College of Engineering, Karad

Where in the party of the first part herein is an absolute owner of the

Name of Machine/s

And substantiate or establish it the documentary evidence in token of voucher enclosed. Whereas party of the second part herein is a registered Government Contractors as stated in appropriate Class with Government of Maharashtra.

AND whereas the party of the second part is submitted the tender for **(Name of work/ works to be mentioned here)** _____
Principal, **(Name of Institute to be mentioned here)** _____

AND WHERE AS the party of the second part intends to use the machinery of the said work as is being stipulated by the Department and desirous of taking the one /s on the monthly hire charges basis.

AND WHERE AS the party of the first part, is desirous of giving machinery on hire charges basis to the party of second part.

AND WHERE AS to these presents are desirous of recording the terms and of the agreement, reduce the same to writing.

Now therefore, this article of agreement witnesses' as under: One

/s to be hired.

It is hereby agreed between the parties to these presents that _____

Name of Machine / s

Of the second part has agreed to pay an amount of Rs. _____ to the party of the first part on account of monthly wages of the machine /s as detailed below at the end of each month.

The party of Second part shall also pay an amount of Rs. _____ as interest deposit to the party of the first part at the time of intimation in writing. This deposit _____ shall either be refunded by the First Part to the party of the Second Part or shall be adjusted in the final of the hire charges of the machine /s .

Name of Machine

Monthly rate of hire charges.

Signature of Contractor

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Government College of Engineering, Karad

2. Date of Hire:

It is hereby expressly declared by the parties to the presents that the machine/s shall be hired on and from the date of commencement of the work being awarded or that would be awarded by the Government College, _____
_____ to the party of the second part herein.

3. It is hereby agreed by and between the parties to these presents that instant agreement shall remain in force from the date of hire as specified in Clause -2 above to the date of either completion of the work in question or six months from the date of hire whichever period expires later.

4. Possession:

The party of the first part has agreed to deliver the possession of the machine/s that would be hired as described in Clause one above in good working condition along with its operational crew and all the necessary accessories of the machine / s being hired to the party of the second part within eight days from the date of intimation in writing given by the party of the second part to the party of the first part.

5. Mode of payment:

Monthly hire charges of the machine /s as specified in Clause one above shall be paid by the party of the second part as on the last day of each month by issuing a crossed Account Payee Cheque or Crossed Account Payee Demand Draft.

6. Repairs and Maintenance:

It is hereby agreed by the party of the first part that it shall bear all day-to-day expenses of the machine /s on account of fuel, oil and lubricants, operations, maintenance and repair charges during the currency of the period for which machine/s let out on hire charges to the party of the second part. It is further agreed that if the party of the second part spends on the operations, repairs and maintenance for the machine /s hired by it, the party of the second part has every right to deduct the said amount from the monthly hire charges payable to the party of the first part.

7. The party of the first part shall always keep the machine /s in good working conditions that are given on hire charges basis to the party of the second part. It is further agreed that the day spend on repairs and maintenance shall be excluded for the purpose of calculating the monthly hire charges.

8. The party of the second part shall have right to deduct the Income Tax at source at the prescribed rate of the provisions of Income Tax Act as ordered by the Government of India, are applicable.

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad

In Testimony where of the parties to these presents have set and subscribed their respective signatures on the day, month and year herein above written.

Party of the First Part

Party of the Second Part

Signed Executed
and delivered for and on
behalf of
Shri./ M/s_____

Signed Executed
and delivered for and
on behalf of
Shri. /M/s _____

In presence of :

- 1) _____
- 2) _____

AFFIRMED AND EXECUTED BEFORE ME

NOTARY

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad

**NAME OF WORK: CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING
AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD,
DIST.SATARA.**

DECLARATION OF THE CONTRACTORS

I/We hereby declare that I/we have made myself/ourselves thoroughly conversant with the sub-soil conditions, the local conditions regarding all materials (such as stone, murum, sand, etc.) and labour of which I/we have based my/our rates for this work. The specifications, conditions, bore results and lead of materials on this work have been carefully studied and understood by me/us before submitting this tender. I/We undertake to use only the best materials approved by the **Principal, Government College of Engineering, Karad** or his duly authorized assistant, before starting the work and to abide by his decision.

I/We hereby further declare that my/ our tender is unconditional in every manner or whatsoever in nature.

I/We hereby undertake to pay the labourers engaged on the work as per Minimum Wages Act, 11248 applicable to the zone concerned.

**TO BE FILLED BY THE
CONTRACTOR**

I/We have quoted my/our offer in percentage rate in words as well as in figures. I/We further undertake to enter into contract in regular "B-1" form in Government College of Engineering, Karad

**Name and Signature of the Contractor(s) / Power of attorney
holder with complete address.**

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad

GENERAL DESCRIPTION AND SCOPE OF WORK
--

NAME OF WORK : CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD,TAL.KARAD, DIST.SATARA.

Name Of Work :- Construction Of SC/ST Girls Hostel Building At Government College Of Engineering Karad, Tal. Karad, Dist. Satara.

Introduction and Administrative Approval :- It is proposed to construct a hostel building for engineering students belonging to scheduled castes/tribes at Government Engineering College, Karad and the said building has been administratively approved by Maharashtra Government Higher and Technical Education Department Government under Memorandum no. Bamprama-1018/(P.No.216/28)/Tanshi-3, dated 26/12/2019 for an amount of Rs.899.98 lakhs. Government of Maharashtra Higher and Technical Education Department Government Under Corrigendum No. Bamprama-1018/(P.No.216/18)/Tanshi-3, dated 17/01/2022, the said building has been transferred to P.W.(West) Division,Satara to complete the construction of the building with quality.

Government of Maharashtra Higher and Technical Education Department Government Under Corrigendum No. Bamprama-1018/(P.No.216/18)/Tanshi-3, dated 17/05/2023 stating that the execution work should be carried out under the institute itself and previous AA issued on 17th January 2022 was cancelled.

Place : - The said hostel building is proposed in the premises of Government Engineering College and the construction site has been fixed by the Principal, Government Engineering College, Karad. Also the architectural plans for the construction (JOB NO. SATARA/302-324) have been approved by the Deputy Chief Architect, P.W.Region, Pune.

General description :- In the administrative approval,G+2 floors of the said building were proposed. Floor wise provisions in Administrative Approval are as follows,

Ground Floor- 23 Rooms with attached toilet, Admin Office, Kitchen, Dining Hall, TV Hall,2 Lifts, 2 staircases, Courtyard in the middle of building.

First and Second floor-24 Rooms with attached toilet, 1 Recreational Room.

The original administrative approval has been given to the Estimate prepared as per the DSR 2018-19

Signature of Contractor

No. of Corrections

Principal

Government College of Engineering, Karad

As per SSR 2022-23 it is possible to construct only 11 Rooms with attached toilet, Admin Office, Kitchen, Dining Hall, TV Hall, 1 staircase on Ground Floor, 12 Rooms with attached toilet and 1 recreational room each on first and second floor, within received administrative approval amount. So, the remaining part of the building has been excluded from the technical approval estimate.

Details of construction

Foundation : According to the results of the trial pits taken at the site of the proposed building, as the hard strata is available at reasonable depth, provision has been made for open foundation in the estimate.

Construction: R.C.C. (M25 Grade) Framed structure (Column, Beam, Slab etc.) with AAC brick masonry is proposed.

Plastering: 23mm thick sand faced plaster is proposed for the external face of the building and 12mm and 18mm thick plaster is proposed for internal face.

Flooring: Granite Flooring for Entrance Lobby and Polished Kota Flooring for all rooms and staircase, Ceramic Flooring for Skirting/dado, Paving Blocks are proposed around the building.

Doors and Windows: Teak wood frame with teak wood shutter for entrance door, steel frames with flush doors, aluminum sliding windows with 15kg/sqm grills are proposed.

Painting: Apex colour on the outside face and luster colour on the inside face is proposed.

Waterproofing: Acrylic polymer modified cement-based waterproofing for roof and brick bat coba for toilets treatment is proposed.

Stair Railing: 900mm. Height stainless steel railing is proposed

SSR 2022-23 has been used to prepare the Estimate for the said work and a lead chart of construction material quarry has been added. As the said work is coming in sugar factory area, 5% extra rate has been charged. The amount required for electrification has been provided according to the invoice received from the electric wing of P.W.D.

Estimated Amount

:- The estimated amount of the said work is Rs. 899.91 lakhs.

Signature of Contractor

No. of Corrections

Principal

Government College of Engineering, Karad

THE METHOD AND SEQUENCE OF EXECUTION
(GENERAL GUIDELINES)

- 1) On award of contract, the contractor shall take levels jointly with Engineer's representative for existing cross sections and L sections of the road. The cross sections shall be taken at 10.00 m. interval at other and 5.00 m. interval on curves and in Ghat Section along the length of the road. Bench mark pillars shall be erected at 1000 m. interval before starting leveling work.
- 2) After taking line out, contractor must excavate the gutter as per section attached with the tender. Minimum longitudinal slope towards natural drain shall be 1:40.
- 3) The formation widening shall be executed simultaneously as per necessity.
- 4) After completion of gutter excavation, contractor shall take the work of C.D. Work in the excavation for head wall of C.D. work shall be completed after passing of foundation for head walls. Contractor shall construct masonry work upto sill level of pipe and then pipe shall be laid in line and level and complete head wall construction alongwith catch pit.
- 5) Work of collection for W.B.M. shall be taken in hand only after completion of gutter and C.D. work with catch pit and completion of earth work.
- 6) W.B.M. and B.B.M. shall be completed with 3% camber and super elevation if required as per specification with schedule. B.M. shall be completed after B.B.M.
- 7) Open graded premix carpet with liquid seal coat, road side furniture shall be executed as per schedule.
- 8) The contractor will not be paid for W.B.M. gutter, C.D. works and B.T. Items if he has not excavated Gutters.
- 12) The work of filling watering and compacting side shoulder as specified with available murum shall be done simultaneously with laying of W.B.M., B.B.M. and carpet layers. The side shoulders shall be compacted with side slope of 5% from carriageway edge towards to the gutter.
- 10) Traffic plying at design speed should not feel bump or jerk on any stretches. Contractor shall plan for all such locations well before taking up work in such stretches and difficulties in doing so, if any, be brought to the notice of the Engineer and only after his permission work proceed further.
- 11) If there is traffic plying on the existing road, the tenderer should get himself accustomed with the traffic conditions before quoting for the work. Once the work is started sufficient care shall be taken to see that obstruction / inconvenience to traffic is kept to the barest minimum. Sufficient number of boards as required, approved by Executive Engineer in charge shall be provided by the Contractor at his own cost at such a location which give sufficient warning of work in progress, special care shall be taken by the contractor during night hours. The Contractor shall maintain the diversion properly at his own cost as directed by the Engineer in charge till the completion of the work.

Signature of Contractor

No. of Corrections

Principal

Government College of Engineering, Karad

12) Work of construction of road side furniture shall be completed before execution of premix carpet and seal coat.

13) Contractor shall erect scheme board within fifteen days from the date of work order.

14) Testing of material shall be as per frequency.

Signature of Contractor

No. of Corrections

Principal
Government College of Engineering, Karad

FORM B-1

PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS

GOVERNMENT COLLEGE OF ENGINEERING, KARAD

NAME OF WORK : CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD,TAL.KARAD, DIST.SATARA.

General Rules and Directions for the Guidance of Contractors

1. All works proposed to be executed by contract shall be notified in a form of invitation to tender passed on a board hung up in the office of the Principal and signed by the **Principal, Government College of Engineering, Karad**. This form will state the work to be carried out as well as the date for submitting and opening tenders, and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender and the amount of security deposit to be deposited by the successful tenderer, and the percentage, if any, to be deducted from bills. It will also state whether a refund of quarry fees, royalties, dues and ground rents will be granted. Copies of the specifications, designs and drawings, estimated rates, scheduled rates and any other documents required in connection with the work shall be signed by the Principal for the purpose of identification and shall also be open for inspection by contractors at the office of the **Principal, Government College of Engineering, Karad** during office hours.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of the Governor of Maharashtra such specifications with designs and drawings shall form part of the accepted tender.

2. In the event of the tender being submitted by a firm, it must be signed by each partner thereof, and in the event of the absence of any partner, it shall be signed on his behalf by a person holding a power of attorney authorizing him to do so.

2 (A) i) The contractor shall pay along with the tender the sum of **Rs. 328000.00** as and by way of earnest money. Earnest money shall be paid via online using NEFT/RTGS or payment gateway mode. The said amount of earnest money shall not carry any interest whatsoever.

ii) In the event of his tender being accepted, subject to the provision of sub clause (iii) below, the said amount of earnest money shall be appropriated towards the amount deposit payable by him under condition of General Conditions of Contract.

iii) If after submitting the tender, the contractor withdraws his offer or modifies the same or if after the acceptance of his tender the contractor fails or neglects to furnish the balance of security deposit, without prejudice to any other rights and powers of the Government hereunder, or in law, Government shall be entitled to forfeit the full amount of the earnest money deposited by him.

Signature of Contractor

No. of Corrections

Principal

Government College of Engineering, Karad

iv) In the event of his tender not being accepted, the amount of earnest money deposited by the contractors shall, unless it is forfeited prior under the provision of sub-clause (ii) above, be refunded to him online.

3. Receipt for payments made on account of any work, when executed by a firm, should also be signed by all the partners. Except where the contractors are described in their tender as a firm, in which case the receipts shall be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.

4. Any person who submits a tender shall fill up the usual printed form including the column of estimated quantities stating at what rate he is willing to undertake all item of the work. Tenders which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work or which contain any other conditions of any sort, will be liable for rejection. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit a separate tender for each. Tenderers shall have the name and the number of works to which they refer written outside the envelope.

5. The **Principal, Government College of Engineering, Karad** or his duly authorized assistant will open tenders in the presence of any intending contractors who may be present at the time and will enter the amount of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, the contractor shall thereupon, for the purpose of identification, sign copies of the specifications and other documents mentioned in Rule 1. In the event of a tender being rejected, the Principal shall refund the amount of earnest money deposited by the contractor online.

6. The officer competent to dispose of the tender shall have the right to reject any or all of the tenders.

7. No receipt for any payment alleged to have been made by a Contractor in regard to any matter relating to this tender or the contract shall be valid and binding on the Government unless it is signed by the Principal.

8. The memorandum of work to be tendered for and the Schedule of materials to be supplied by the Institute and their rates shall be filled in and completed by the office of the Principal before the tender form is issued. If a form issued to an intending tenderer has not been so filled in and completed, he shall request the said office to have this done before he completes and delivers his tender.

9. All works shall be measured net by standard measure and according the rules and customs of the Institute and their rates shall be without reference to any local custom.

10. Under no circumstances shall any Contractor be entitled to claim enhanced rates for items in this contract.

11. Every registered Contractor should produce along with his tender certificate of registration as approved Contractor in the appropriate class and renewal of such registration with date of expiry.

12. All corrections and additions or pasted slips should be initialed.

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13. The measurements of work will be taken according to the usual methods in use in the Institute no proposals to adopt alternative methods will be accepted. The Principal's decision as to what is "the usual method in use in the Institute" will be final.

14. A tendering Contractor shall furnish a declaration along with a tender showing all works for which he has already entered into contract, and the value of the work that remains to be executed in each case on the date submitting the tender.

15. Every tenderer shall furnish along with the tender, information regarding the Income Tax Circle or Ward of the District in which he is assessed to Income Tax, the reference to the number of the assessment and the Assessment Year and a valid Income Tax Clearance Certificate or True Copy thereof duly attested by Gazetted Officer. **Permanent Account Number (PAN) No.**_____.

16. In view of the difficult position regarding the availability of foreign exchange, no foreign exchange would be released by the Institute for the purchase of plant and machinery required for the execution of the work contracted for (GCD/PWD/CFM/1058/62517 of 26.5.112512).

17. The Contractor will have to construct shed for storing controlled and valuable materials issued to him under Schedule 'A' of the agreement, at work site, having double locking arrangement. The materials will be taken for use in the presence of the Institute person. No materials will be allowed to be removed from the site of works.

18. The Contractors shall also give a list of machinery in their possession and which they propose to use on the work in the form of Statement No. II.

19. Every registered Contractor should furnish along with the tender a statement showing previous experience and technical staff employed by him, in the Form No. V.

20. Successful tenderer will have to produce to the satisfaction of the accepting authority a valid and current licence issued in his favour under the provisions of Contract Labour (Regulation and Abolition) Act, 11273 before starting work failing which acceptance of the tender will be liable for withdrawal and earnest money will be forfeited to the Government. (Reference Government of Maharashtra, Irrigation & Power Department's letter No. LAB 1076/1181/(666E-(17), dated 8/12/11276).

21. The Contractor shall comply with the provisions of Apprentices Act, 11261 and the rules and the orders issued thereunder from time to time. If he fails to do so, his failure will be breach of the contract and the Superintending Engineer, may in his discretion cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the Act.

22. The rates quoted by the Contractor shall be exclusive GST but shall be deemed to be inclusive of other taxes, levies including royalty, cess that the contractor will have to pay for the performance of this contract. The employer will perform such duties in regard to the deduction of such taxes, as applicable at source as per applicable law. GST will be paid to contractors at prevailing rates on bill amount separately.

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(for office use only)

<p><i>* In figures as well as in words.</i></p> <p>Offer Submitted / Uploaded online in BOQ Provided online.</p>	<p align="center"><u>TENDER FOR WORKS</u></p> <p>1. I/We hereby tender for the execution, for the Governor of Maharashtra (hereinafter and hereinafter referred to as "Government" of the work specified in the underwritten memorandum within the time specified in such memorandum at offer Submitted/ uploaded online in BOQ Provided online (percent below/above) the estimated rates entered in Schedule – B (memorandum showing items of works to be carried out) and in accordance in all respects with the specifications, design, drawings, and instructions, in writing referred to in Rule-1 hereof and in Clause- 12 of the annexed conditions of the contract and agree that when materials for the works are provided by the Government such material the rates to be paid for them shall be as provided in Schedule "A" hereto.</p>
	<p align="center">MEMORANDUM</p>
<p><i>(a) if several sub-works are included they should be detailed in a separate list</i></p>	<p>(a) General Description – CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA.</p>
<p><i>(c) The amount of earnest money to be deposited shall be in accordance with the provisions of paras 206 and 207 of the M.P.W. Manual.</i></p>	<p align="right">(b) Estimated Cost - Rs.65546390.00 (c) Earnest Money - Rs. 328000.00</p>
<p><i>(d) This deposit shall be in accordance with paras 213 and 214 of the M.P.W. Manual.</i></p>	<p>(d) Security Deposit</p> <p>i) Cash (Not less than the - Rs. 328000.00 Amount of earnest money)</p> <p>ii) To be deducted from - Rs.328000.00 the current bills.</p> <p align="right">Total Rs. 656000.00</p>
<p><i>(e) This percent where no security deposit is taken, will vary from 1 percent to 10 percent according to the</i></p>	<p>(e) Percentage, if any, to be deducted from bills so as to make up the total amount required as security deposit 1%Percent</p>

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<p><i>requirement of the case where security deposit is taken see not 1 to clause 1 of conditions of</i></p>	<p>by the time, half the work, as measured by the costs, is done.</p>
<p><i>(f) Give Schedule where necessary showing dates by which the various items are to be completed.</i></p>	<p>(f) Time allowed for the work from the date of written order to commence - 24 Calendar Months. (Twenty-Four Calendar Months) (Including Monsoon)</p>
	<p>2. I/We agree that the offer shall remain open for acceptance for a minimum period of 90 days from the date fixed for opening the same and thereafter until it is withdrawn by me/us by notice in writing duly addressed to the authority opening the tenders and sent by registered post A.D. or otherwise delivered at the office of such authority. Treasury/ Bank Challan No. _____ and date _____ or Term Deposit Receipt for a period of one year receipt no. and date _____ In respect to the sum of Rs. _____ (in words - _____) representing the earnest money is herewith forwarded.</p> <p>The amount of earnest money shall not bear interest and shall be liable to be forfeited to the Government should I/We fail to (i) abide the stipulations to keep the offer open for the period mentioned above or (ii) Sign and complete the contract documents as required by the Engineer and furnish the security deposit as specified in item (d) of the memorandum contained in paragraph (1) above within the time limit laid down in clause (1) of the annexed General Conditions of Contract. The amount of earnest money may be adjusted towards the security deposit or refunded to me/us if so desired by me/us in writing unless the same or any part thereof has been forfeited as aforesaid.</p>

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	3. Should this tender be accepted I/We hereby agree to abide by and fulfil all the terms and provisions of the conditions of Contract annexed hereto so far as applicable and in default thereof to forfeit and pay to the Government the sums of money mentioned in the said conditions.
<p><i>*Amount to be specified in words and figures.</i></p> <p><i>*Strike out (a) if no cash security deposit is to be taken.</i></p> <p># Signature of Contractor before submission of tender.</p> <p>Signature of Witness to contractor's signature.</p>	<p>Receipt No. _____ Dated _____</p> <p>from the Government Treasury or Sub- Treasury at _____ in respect of sum of Rs.* _____/- (In words _____) Is herewith forwarded representing the earnest money (a0 the value of which is to be absolutely forfeited to the Government should I/We not deposit the full amount of security deposit specified in the above memorandum in accordance with clause 1 (A) of the said Conditions of Contract otherwise the said Conditions of Contract otherwise the said amount of Rs _____/- (In words _____) shall be refunded.</p> <p>Contractor :# _____</p> <p>Address : _____</p> <p>Dated : The _____ day of _____ 20 _____</p> <p>(Witness) : \$ _____</p> <p>Address : _____</p> <p>(Occupation) : _____</p>
Signature of the officer by whom accepted.	<p>The above tender is hereby accepted by me for and on behalf of the Governor of Maharashtra</p> <p>Dated _____ day of _____ 20 _____</p> <p>Principal Government College of Engineering, Karad</p>

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<u>CONDITIONS OF CONTRACT</u>	
<p><i>Security Deposit PWD Resolution No. CAT/1087/CR- 124/Bldg.2 dt.14-6- 812</i></p>	<p>Clause 1 - The person/persons whose tender may be accepted (hereinafter called the contractor, which expression shall unless excluded by or repugnant to the Context include his heirs, executors, administrators, assigns) shall (A) within ten days(which may be extended by the Superintending Engineer concerned upto 15 days if the Superintending Engineer thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with executive Engineer in cash of Government securities endorsed to the Executive Engineer (if deposited for more than 12 months) of the sum sufficient which will make up the full security deposit specified in the tender or (B) (permit Government at the time of making any payment of him for work done under the contract to deduct such sum as will amount to ___1___*percent of all moneys so payable such deductions to be held by Government by way of security deposit.) Provided always that in the event of the Contractor depositing a lumpsum by way of security deposit as contemplated at (A) above, then and in such case, if the sum so deposited shall not amount to 1_ percent of the total estimated payment to the contractor for work done under the contract to make up the full amount of _1_ percent by deducting sufficient sum from every such payment as last aforesaid until the full amount for the security deposit is made u. All compensation or other sums of money payable for the Contractor to Government under terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due or may become due by Government to the Contractor under any other contract or transaction of any nature on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the Contractor shall within ten days thereafter make good in cash or Government securities endorsed as aforesaid any sum or sums which may have been deducted from or referred to, when paid in cash may at the cost of the depositor, be converted into interest bearing securities provided that the depositor has expressly desired this in writing.</p> <p>The security deposit will not be accepted in forms of insurance company bonds. As per Government orders contained in no.CCM/PWD/CAT/4250 dated 27.12.11256. If the amount of the security deposit to be paid in a lumpsum within the period Specified at (A) above is not paid the tender/contract already accepted shall be considered as</p>
<p><i>Security deposit PWD Resolution No. CAT/1087/CR-124/ Bldg2 dated 21-6-2004</i></p>	

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<p>Refund of Security Deposit as per As per PWD Circular CAT- 2017/ Pra. Kra. 8 / Bldg-2 dated 29.01.2019</p>	<p>cancelled and legal steps taken against the Contractor for recovery of the amounts.</p> <p>If Defect Liability Period as per Clause 20 is more than 2 (Two) Years, 90% of Security Deposit will be refunded after 2 (two) years from completion of work and balance 10% of Security Deposit can be replaced with DD/FDR/BG of any Nationalized Bank validity of BG/FDR must be 1 (one) month after completion of Defect Liability Period (i.e. the date up to which contractors has agreed to maintained the work in good order). This balance 10% Security Deposit shall be refunded/ released after completion of Defect Liability Period prescribed for this contract in accordance with the provisions in Clause 20 of the contract (i.e. the date up to which contractors has agreed to maintained the work in good order) and verification of quality of work by competent Authority as per PWD G.R. No. Sankirna - 2018/Pra.Kra. 151 / Bldg-2 dated 14.01.2019.</p> <p>If Defect Liability Period as per Clause 20 is 2 (Two) Years or less than 2 (Two) Years, 100% Security Deposit shall be refunded/ released after completion of Defect Liability Period prescribed for this contract in accordance with the provisions in Clause 20 of the contract (i.e. the date up to which contractors has agreed to maintained the work in good order) and verification of quality of work by competent Authority as per PWD G.R. No. Sankirna - 2018/ Pra.Kra. 151 / Bldg-2 dated 14.01.2019.</p> <p>In the event of the Contractor failing or neglecting to complete rectification work within the period upto which the Contractor has agreed to maintain the work in good order, then subject to provision of Clauses 17 and 20 hereto the amount of security deposit retained by Government shall be adjusted towards the excess cost incurred by the Department on rectification work.</p> <p>* Note: This will be the same percentages as that in the tender at (e)</p>
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<p>Compensation for Delay</p>	<p>Clause 2 - The time allowed for carrying out the work as entered in the tender shall be strictly observed by the Contractor and shall be Strictly observed by the Contractor and shall be reckoned from the date on which the order to commence work is given to the Contractor. The work shall throughout the stipulated period of the contract be proceeded with, with all due diligence (time being deemed to be the essence of the contract on the part of the Contractor) and the Contractor shall pay as compensation an amount equal to one percent of such smaller amount as the Superintending Engineer (whose decision in writing shall be final) may decide of the amount of the estimated cost of the whole work as shown by the tenderer for everyday that the work remains un-commenced or unfinished after the proper dates. And further to ensure good progress during execution of the work, the Contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete.</p> <p>The Programme for completion of work is attached in form of bar chart on page No._____. The contractor is supposed to carry out the work and keep the progress as per bar chart on page No._____. The contractor should complete the work as per phase period given below, which is arrived from the bar chart.</p> <p>1/4th of the work in 1/4th ** of the time 1/2 of the work in 1/2 ** of the time 3/4th of the work in 3/4th ** of the time</p> <p>Full work to be completed in 24 (Twenty-Four) Calendar months (including monsoon)</p>
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	<p>** Note : The quantity of the work to be done within a particular time to be specified shall be fixed and inserted in the blank space kept for the purpose by the Officer competent to accept the contracts after taking into consideration the circumstances of each case and abide by the programme of details process laid down by the Executive Engineer.</p> <p>The following proportion will usually be found suitable In $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ of the time.</p> <p>Reasonable progress of earth work $\frac{1}{6}$, $\frac{1}{2}$, $\frac{3}{4}$ of the total value of the work to be done.</p> <p>Reasonable progress of masonry $\frac{1}{10}$, $\frac{4}{10}$, $\frac{8}{10}$ of the total value of the work to be done.</p> <p>In the event of the Contractor failing to comply with these conditions he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the Superintending Engineer (whose decision in writing shall be final) may decide of the said estimated cost of the whole work for every day that the due quantity of work remains incomplete provided always that the total amount of compensation to be paid under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in the tender. Superintending Engineer should be the final authority in this respect, irrespective of the fact that tender is accepted by Chief Engineer/ Additional Chief Engineer/ Superintending Engineer/ Executive Engineer or Assistant Engineer/ Deputy Engineer.</p>
<p>Action when whole of security deposit is forfeited.</p>	<p>Clause 3 - In any case in which under any clause of this contract of the Contractor shall have rendered himself liable to pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted by installments or in the case of abandonment of the work owing to serious illness or death of the Contractor or any other causes, the Executive Engineer, on behalf of the Governor of Maharashtra shall have power to adopt any of the following courses, as he may deem best to the interest of Government.</p> <p>a) To rescind the contract (for which recession notice in writing to the Contractor under the hand on Executive Engineer shall be conclusive evidence) and in that case the security deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the Government.</p> <p>b) To carry out the work or any part of the work departmentally debiting the Contractor with the cost of the work, expenditure incurred on tools and plant, and charges of additional supervisory staff including the cost of work-</p>

	<p>charged establishment employed for getting unexecuted part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Executive Engineer as to the costs and the other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the Contractor.</p> <p>c) To order that the work of the Contractor be measured up and to take such part thereof as shall be unexecuted, out of his hands and to give it to another Contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work-charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Executive Engineer as to all the costs of the work and other expenses as aforesaid for or in getting the unexecuted work done by the new contractor and as to the value of the work so done shall be final and conclusive against the Contractor.</p> <p>In case the contract shall be rescinded under clause (a) above the Contractor shall not be entitled to recover or be paid, any sum for any work therefore actually performed by him under this contract unless and until the Executive Engineer shall have certified in writing the performance of such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event of either of the courses referred to in Clause (b) or (c) being adopted and the cost of work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the Contractor, the amount of excess shall be deducted from money due to the Contractor, by Government under the contract or otherwise howsoever or from his security deposit or the sale proceeds thereof provided , however that the Contractor shall have no claim against Government even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clauses (a), (b) or (c) is adopted by the Executive Engineer, the Contractor shall have no claim to compensation for any</p>
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	loss sustained by reason of his having purchased, or procured any materials, or entered into any engagements or made any advances on account of, or with a view to the execution of the work or the performance of the contract.
<i>Action when the progress of any particular portion of the work is unsatisfactory.</i>	Clause 4 - If the progress of any particular portion of the work is unsatisfactory, the Executive Engineer shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned in clause 2, be entitled to take action under clause 3(b) after given the Contractor 10 days' notice in writing. The contractor will have no claim for compensation, for any loss sustained by him owing to such action.
Contractor remains liable to pay compensation if action not taken under Clauses 3 & 4 Power to take possession of or require removal of or sale contractor's plant.	Clause 5 - In any case in which any of the powers conferred upon the Executive Engineer by clause 3 and 4 hereof shall have become exercisable and the same shall not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be excisable in the event of any future case of default by the Contractor for which under any clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit and liability of the Contractor for past and future compensation shall remain unaffected. In the event of the Executive Engineer taking action under sub-clause (a) or (c) of clause 3, he may, if he so desires, take possession of all or any tools and plants, material and stores , in or upon the work or the site thereof or belonging to the Contractor or procured by him and intended to be used for the execution of the work or any part thereof, paying or allowing for the same in account at the contract rates, or in the case of contract rates being applicable at current market rates, to be certified by the Executive Engineer whose certificate thereof shall be final. In the alternative, the Executive Engineer may after giving notice in writing to the Contractor or his clerk of the work, foreman or other authorized agent require him to remove such tools and plants material or stores, from the premises within a time to be specified in such notice, and in the event of the Contractor failing to comply with any such requisition, the Executive Engineer may remove them at the Contractor's expense or sale them by auction or private sale on account of the Contractor and his risk in all respects, and the certificate of the Executive Engineer as to the expense of any such removal and the amount of the proceeds and expense of any such sale shall be final and conclusive against the Contractor.

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<u>Extension of time</u>	Clause 6 - If the Contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply in writing to the Executive Engineer before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier and the Executive Engineer or in the opinion of Superintending Engineering or Chief Engineer as the case may be if in his opinion, there were reasonable grounds for granting an extension, grant such extension as he thinks necessary or proper, the decision of the Executive Engineer in this matter shall be final.
Final certificate.	Clause 7 - On the completion of the work the Contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer – in – charge) of such completion, but no such certificate shall be given nor shall the work be considered to be completed until the contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish and shall have cleaned off, the dirt from all wood work, doors, windows, walls, floor or other parts of any building in or upon which the work has been executed, or of which he may have had possession for the purpose of executing the work nor until the work shall have been measured by the Engineer – in – charge or where the measurements have been taken by his subordinates until they have received approval from the Engineer-in-charge the said measurements being binding and conclusive against the Contractor. If the Contractor shall fail to Comply with the requirements of this clause as to the removal of scaffolding, surplus materials and rubbish and the cleaning of dirt on or before the date fixed for the completion of the work the Engineer-in-charge may at the expense of the Contractor, remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirt as aforesaid and the Contractor shall forthwith pay the amount of all expenses so incurred, but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.
<i>Payment on intermediate certificate to be regarded as advance</i>	Clause 8 - No payment shall be made for any work estimated to cost less than Rupees One Thousand till after the whole of work shall have been completed and a certificate of completion given. But in the case of works

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	<p>estimated to cost more than Rupees One Thousand the Contractor shall on submitting a monthly bill therefore, be entitled to receive payment proportionate to the part of the work then approved and passed by the Engineer-in-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the Contractor. All such intermediate payments shall be regarded as a payment by way of advance against the final payments only and not as payments for work actually done and completed and shall not preclude the Engineer-in-charge from requiring any bad, unsound, imperfect or unskillful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect or the occurring of any claim nor shall it conclude, determine or affect in any other way the powers of the Engineer-in-charge as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or affect the contract. The final bill shall be submitted by the Contractor within one month of the date fixed for the completion of the work, otherwise the Engineer-in-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all the parties.</p>
<p><i>Payment at reduced rates on account of items of work not accepted as so completed, to be at the discretion of the Engineer-in-charge.</i></p>	<p>Clause 9 - The rates for several items of works estimated to cost more than Rs.,1,000/- agreed to within shall be valid only when the items concerned is accepted as having been completed fully in accordance with the sanctioned specifications. In cases where the items of work are not accepted as so contemplated by the Engineer-in-charge he may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills.</p>
<p><i>Bills to be submitted monthly.</i></p>	<p>Clause 10 - A bill shall be submitted by the contractor in each month on or before the date fixed by the Engineer-in-charge for all works executed in the previous month, and the Engineer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, so far as it is admissible shall be adjusted, if possible, within ten days from the presentation of the bill. If the Contractor does not submit the bill within the time fixed as aforesaid; the Engineer-in-charge may depute a subordinate to measure up the said work in the presence of the Contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and the Engineer-in-charge may prepare a bill from such list which shall be binding on the Contractor in all respects.</p>

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<p><i>Bills to be printed on forms</i></p>	<p>Clause 11 - The Contractor shall submit all bills on the printed forms to be had on application at the office of the Engineer-in-charge. The charges to be made in the bills shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the tender, at the rates hereinafter provided for such work.</p>
<p><i>Stores supplied by Government</i></p>	<p>Clause 12 - If the specification or estimate of the work provides for the use of any special description of materials to be supplied from the stores of the Department or if it is required that the Contractor shall use certain stores to be provided by the Engineer-in-charge (such material and stores and the price to be charged therefore as hereinafter mentioned being so far as practicable for the convenience of the Contractor but not so as in any way to control the meaning or effect of this contract specified in the schedule or memorandum hereto annexed) the Contractor shall be supplied with such materials and stores, as may be required from time to time to be used by him for the purposes of contract only and the value of full quantity of the materials and the stores so supplied shall be set off or deducted from any sums then due, or thereafter to become due to the Contractor under the contract, or otherwise or from the security deposit, the same of a sufficient portion thereof shall in that case be sold for the purpose. All materials supplied to the Contractor shall remain the absolute property of the Government and shall on no account be removed from the site of the work, and shall at all times be open for inspection by the Engineer – in- charge. Any such materials unused and in perfectly good condition at the time of completion or termination of the contract shall be returned to the Departmental stores if the Engineer-in-charge so requires by a notice in writing given under his hand, but the contractor shall not be entitled to return any such materials except with such consent of the Engineer-in-charge so requires by a notice in writing given under his hand, but the Contractor shall not be entitled to return any such material except with such consent of the Engineer-in-charge and he shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or for any wastage in or damage to any such material.</p>

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<p><i>Works to be executed in accordance with specifications, drawings, orders etc.</i></p>	<p>Clause 13 - The Contractor shall execute the whole and every part of in the most substantial and workmanlike manner, and both as regards materials and every other respect in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer- in – charge and lodged in his office and to which the Contractor shall be entitled to have access for the purpose of inspection at such office, or on the site of the work during office hours. The contractor will be entitled to receive three sets, of contract drawing and working drawings as well as one certified copy of the accepted tender along with the work order free of cost. Further copies of the contract drawings and working drawing if required by him, shall be supplied at the rates Rs. 300/- per set of contracts drawing and Rs.200/- per working drawing except where otherwise specified.</p>
<p><i>Alteration In specification and designs not to invalidate contracts.</i></p> <p><i>Rates for works not entered in estimate or schedule of rate of the district.</i></p>	<p>Clause 14 - The Engineer-in-charge shall have power to make any alterations in or additions to the original specifications, drawings, designs, and instructions that may appear to him to be necessary or advisable during the progress of the work, and the Contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Engineer-in-charge and such alteration shall not invalidate the contract, and any additional work which the Contractor may be directed to do in the manner above specified as part of the work shall be carried out by the Contractor on the same conditions in all respects tender for the main work. And if the additional and altered work includes any class of Work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out at the rates entered in the schedule of Rates of the Division or at the rates mutually agreed upon between the Engineer-in-charge and the Contractor, whichever are lower. If the additional or altered work for which no rate is entered in the Schedule of Rates of the Division, is ordered to be carried out before the rates are agreed upon then the Contractor shall within seven days of the date of receipt by him of the order to carry out the work inform the Engineer-in-charge of the rate which it is his intention to charge for such class of work and if the Engineer-in-charge does not agree to this rate, he shall by notice in writing be at liberty to cancel his order to carry out such class of work, and arrange to carry it out in such manner as he may consider advisable provided always that if the Contractor shall commence work</p>

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	<p>or incur any expenditure in regard thereto before the rates shall have been determined as lastly hereinbefore mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of a dispute the decision of the Superintending Engineer of the Circle will be final. Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the Contractor and accepted by the Competent Authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.</p>
<p><i>Extension of time in consequence of addition or alterations.</i></p>	<p>The time limit for the completion of the work shall be extended in the proportion that the increase in its cost occasioned by alterations or additions bears to the cost of the original contract work, and the certificate of the Engineer-in-charge as to such proportion shall be conclusive.</p>
<p><i>No claim to any payment or compensation for Alteration in or restriction of work.</i></p>	<p>Clause 15 - (1) If at any time after the execution of the contract documents the Engineer-in-charge shall for any reason whatsoever (other than default on the part of the Contractor for which the Government is entitled to rescind the contract) desire that the whole or any part of the work specified in the tender should be suspended for any period or that the whole or part of the work should not be carried out at all, he shall give to the Contractor a notice in writing of such desire and upon the receipt of such notice the Contractor shall forthwith suspend or stop the work wholly or in part as required, after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury to the work already done or endanger the safety thereof provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the Contractor. The Contractor shall have no claim to any payment or compensation whatsoever by reason of or in pursuance of any notice as aforesaid, on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.</p> <p>2. Where the total suspension of work ordered as aforesaid continued of a continuous period exceeding 120 days the Contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains</p>

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<p>No claim compensation on account of loss due to delay in supply of material by Government</p>	<p>to the unexecuted part of the work by giving a 10 days prior notice in writing to the Engineer, within 30 days of the expiry of the said period of 120 days, of such intention and requiring the Engineer to record the final measurements of the work already done and to pay final bill. Upon giving such notice, the Contractor shall be deemed to have been discharged from his obligation to complete the remaining unexecuted work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurement and make such payment as may be finally due to the Contractor within a period of 120 days from the receipt of such notice in respect of the work already done by the Contractor. Such payment shall not in any manner prejudice the right of the Contractor to any further compensation under the remaining provisions of this clause.</p> <p>3. Where the Engineer required the Contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate the Contractor shall be entitled to apply to the Engineer within 30 days of the resumption of work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained idle on the site or on the account of his having had to pay the salary or wages of labour engaged by him during the said period of suspension, provided always that the Contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for he first 30 days whether consecutive or in the aggregate of such suspension or in respect of any suspension whatsoever occasioned by unsatisfactory work or any other default on his part. The decision of the Engineer in this regard shall be final and conclusive against the Contractor.</p> <p>4. In the event of -</p> <p>i) Any total stoppage of work on notice from the Engineer under sub-clause (1) in that behalf.</p> <p>ii) Withdrawal by the Contractor from the contractual obligation to complete the remaining unexecuted work under sub-clause (2) on account of continued suspension of work a period exceeding 120 days.</p> <p>OR</p> <p>iii) Curtailment in the quantity of item or items originally tendered on account of any alteration, omission or substitution in the specifications, drawings, designs, or instructions under clause 14 (1) where such curtailment exceeds 25% in quantity and the value of the quantity curtailed beyond 25% at the rates for the item specified in the tender is more than Rs. 5,000/-</p>
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	<p>It shall be open to the Contractor, within 120 days from the service of (i) the notice of stoppage of work or (ii) the notice of withdrawal from the contractual obligations under the contract on account of the continued suspension of work or (iii) notice under clause 14(1) resulting in such curtailment, to produce to the Engineer satisfactory documentary evidence that he had purchased or agreed to purchase material for use in the contracted work, before receipt by him of the notice of stoppage, suspension or curtailment and require the Government to take over on payment such material at the rates determined by the Engineer, provided, however, that such rates shall in no case exceed the rates at which the same was acquired by the Contractor. The Government shall thereafter take over the material so offered, provided the quantities offered, are not in excess of the requirements of the unexecuted work as specified in the accepted tender and are of quality and specifications approved by the Engineer.</p>
<p>No claim on account of loss due to delay in supply of material by Government.</p>	<p>Clause 15 (A) - The Contractor shall not be entitled to claim any compensation from Government for the loss suffered by him on account of delay by Government in the supply of materials entered in Schedule A where such delay is caused by</p> <ul style="list-style-type: none"> i) Difficulties relating to the supply of railway wagons. ii) Force majeure. iii) Act of God. iv) Act of enemies of the State or any other reasonable cause beyond the control of Government. <p>In the case of such delay in the supply of materials, Government shall grant such extension of time for the completion of the works as shall appear to the Executive Engineer to be reasonable in accordance with the circumstances of the case. The decision of the Executive Engineer as to the extension of time shall be accepted as final by the Contractor.</p>
<p>Time limit for unforeseen claims.</p>	<p>Clause 16 - Under no circumstances whatever shall the contractor be entitled to any compensation from Government on any account unless the Contractors shall have submitted claim in writing to the Engineer – in-charge within one month of the case of such claim occurring.</p>
<p>Action and compensation payable in case of bad work.</p>	<p>Clause 17 - If at any time before the security deposit or any part thereof is refunded to the Contractor it shall appear to the Engineer-in-charge or his subordinate in charge of the work that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of</p>

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<p>P.W.D. Resolution No. CAT-1087/CR-124/Bldg.-2 Dated 14/6/812.</p>	<p>inferior quality, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for, or are otherwise not in accordance with the contract, it shall be lawful for the Engineer-in-charge to intimate this fact in writing to the Contractor and then notwithstanding the fact that the work, materials or articles complained of my have been inadvertently passed certified and paid for, the Contractor shall be bound forthwith to rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or if so required shall remove the materials or articles at his own charge and cost and in the event of his failing to do so within a period to be specified by the Engineer – in – charge in the written intimation aforesaid, the Contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimate for everyday not exceeding 10 days during which the failure so continues and in the case of any such failure the Engineer-in-charge may rectify or remove and re-execute the work or remove, and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the Contractor. Should the Engineer –in-charge consider that any such inferior work or materials as prescribed above may be accepted or made use of, it shall be within his discretion to accept the same at such reduced rates as he may fix therefor.</p>
<p>Work to be open to inspection</p> <p>Contractor responsible or agent to be present.</p>	<p>Clause 18 - All works under or in course of execution or executed in pursuance of the contract shall at all times be open to inspection and supervision of the Engineer-in-charge and his subordinates, and the Contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer- in-charge and his subordinate to visit the works shall have been given to the Contractor, either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose. Orders given to the Contractors duly authorized agent shall be considered to have the same force and effect as if they had been given to the Contractor himself.</p>
<p>Notice to be given before work is covered up</p>	<p>Clause 19 - The contractor shall give not less than five day's notice in writing to the Engineer-in –charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up</p>

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	<p>or placed beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge or his subordinate in charge of the work, and if any work shall be covered up or place beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the Contractor's expense, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.</p>
<p>Contractor liable for damage done and for imperfections.</p>	<p>Clause 20 - If during the period of 120 Months (One Hundred Twenty Months) from the date of completion as certified by the Engineer-in-charge pursuant to clause 7 of the contract, if in the opinion of the Executive Engineer the said work is defective in any manner whatsoever the Contractor shall forthwith on receipt of notice in that behalf from the Executive Engineer, duly commence execution in every respect all the work that may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the Executive Engineer. In the event of the Contractor failing or neglecting to commence execution of the said rectification work within the period prescribed therefore in the said notice and/or to complete the same as aforesaid as required by the said notice, the Executive Engineer may get the same executed and carried out departmentally or by any other agency at the risk, on account and at the cost of the Contractor. The Contractor shall forthwith on demand pay to the Government the amount of such cost, charges and expenses sustained or incurred by the Government of which the certificate of the Executive Engineer shall be final and binding on the Contractor. Such costs, charges and expenses shall be deemed to be arrears of land revenue and in the event of the Contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Government the same may be recovered from the Contractor as arrears of land revenue. The Government shall also be entitled to deduct the same from any amount which may then be payable or which may therefore, become payable by the Government to the Contractor either in respect of the said work or any other work whatsoever or from the amount of security deposit retained by Government.</p>

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<p>Contractor to supply plant, ladder, scaffolding, etc. and is liable for damages arising from non-provisions of light, fencing etc.</p>	<p>Clause 21 - The Contractor shall supply at his own cost all material (except such special materials, if any, as may, in accordance with the contract, be supplied from the P.W.D. stores), plant, tools, appliances, implements, ladders, cordage, tackles, scaffolding and temporary works requisite or proper for the proper execution of the work, whether in the original, altered or substituted form, and whether included in the specification or other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying With the requirements of the Engineer-in – charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with the carriage therefor to and from the work. The Contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or the materials. Failing this the same may be provided by the Engineer-in-charge at the expense of the Contractor and expenses may be deducted from any money due to the Contractor under the contract or from his security deposit or the proceeds of sale thereof, or a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident, and shall also be bound to bear the expenses of defense of every suit, action or other legal proceedings, at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay any damages and costs which may be awarded in any such suit action or proceedings to any such person, or which may with consent of the Contractor be paid for compromising any claim by any such person.</p> <p>List of machinery in Contractor's possession and which he proposes to use on the work should be submitted along with the tender.</p>
	<p>Clause 21 (A)- The Contractor shall provide suitable scaffolds and working platforms gangways and stairways and shall comply with the following regulations in connection therewith-</p> <ul style="list-style-type: none"> a) Suitable scaffolds shall be provided for workmen for all works that cannot be safely done from a ladder or by other means. b) A scaffold shall not be constructed, taken down or substantially altered except: - <ul style="list-style-type: none"> i) Under the supervision of a competent and responsible person, and

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	<p>ii) As far as possible by competent workers possessing adequate experience in this kind of work.</p> <p>c) All scaffolds and appliances connected therewith and ladders shall</p> <p>i) be of sound material.</p> <p>ii) Be of adequate strength having regard to loads and strains to which they will be subjected, and</p> <p>iii) Be maintained in proper condition.</p> <p>d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.</p> <p>e) Scaffolds shall not be over-loaded and so far as practicable the load shall be evenly distributed.</p> <p>f) Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.</p> <p>g) Scaffolds shall be periodically inspected by a competent person.</p> <p>h) Before allowing a scaffold to be used by his workmen the Contractor shall, whether the scaffold to be used by his workmen or not, take steps to ensure that it complies fully with the regulations herein specified.</p> <p>i) Working platform, gangway, stairways shall</p> <p>i) be so constructed that no part thereof can sag unduly or unequally.</p> <p>ii) be so constructed and maintained, having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping, and</p>
	<p>iii) be kept free from any unnecessary obstruction.</p> <p>j) In the case of working platform, gangways, working places and stairways at a height exceeding 2 meters (to be specified) .</p> <p>i) every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety:</p> <p>ii) every working platform and gangway shall have adequate width; and</p> <p>iii) every working platform, gangway, working place and stairway shall be suitably fenced.</p> <p>k) Every opening in the floor of a building or in a working platform shall except for the time and to the extent required to allow the excess of persons or the transport or shifting of material be provided with suitable means to prevent the fall of persons or material.</p>

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	<p>l) When persons are employed on a rood where there is a danger of failing from a height exceeding 2 meters (to be specified) suitable precautions shall be taken to prevent the fall of persons or materials.</p> <p>m) Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.</p> <p>n) Safe means of access shall be provided to all working platforms and other working places.</p> <p>o) The Contractor/(s) will have to make payments to labourers as per Minimum Wages Act 11248.</p>
	<p>Clause 21 - (B) - The Contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him:-</p> <p>a) Hoisting machines and tackles, including their attachments, anchorages and supports shall</p> <p>i) be of good mechanical construction, sound material and adequate strength and free from patent defect,</p> <p style="text-align: center;">and</p> <p>ii) be kept in good repair and in good working order.</p> <p>b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.</p> <p>c) Hoisting machines and tackles shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by the Government.</p> <p>d) Every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined</p> <p>e) Every crane driver or hoisting appliance operator shall be properly qualified.</p> <p>f) No person who is below the age of 21 years shall be in control any hoisting machine, including any scaffold which give signals to the operator.</p> <p>g) In case of every hoisting machine and of every chin, ring, hook, shackle, swivel and pulley block used in hoisting or lowering or as a means of suspension, the safe working load shall be ascertained by adequate means.</p> <p>h) Every hoisting j machine and all gear referred to in preceding regulation shall be plainly marked with the safe working load.</p>

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	<p>i) In the case of a hoisting machine having a variable safe working load each safe working load and the conditions under which it is applicable shall be clearly indicated.</p> <p>j) No part of any hoisting machine or any gear referred to in regulation (g) above shall be loaded beyond the safe working load except for the purpose of testing.</p> <p>k) Motors, gearing, transmissions, electric wiring and other dangerous parts of hoisting appliances shall, be provided with efficient safeguards.</p> <p>l) Hoisting appliances shall be provided with such means as will reduce to minimum and the risk of the accidental descent of the load.</p> <p>m) Adequate precaution shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced.</p>
Measurement for prevention of fire.	Clause 22 - The Contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permission from the Executive Engineer. When such permit is given, and also in the cases when destroying, cut or dug up trees, brushwood, grass etc. by fire, the Contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The Contractor shall make his own arrangements for drinking water for the labour employed by him and provide sanitary and other arrangement.
Liability of Contractor for any damage done in or outside work area.	Clause 23 - Compensation for all damages done intentionally or unintentionally by Contractor's labour whether in or beyond the limits of the Government property including and damage caused by the spreading of fire mentioned in Clause 22 shall be estimated by the Engineer-in-charge or such other officer as he may appoint and the estimate of the Engineer –in-charge subject to the decision of the Superintending Engineer on appeal shall be final and the Contractor shall be bound to pay the amount of the assessed compensation on demand, failing which the same will be recovered from the Contractor as damage in the prescribed in Clause 1 or deducted by the Engineer-in-charge from any sums that may be due or become due from Government to Contractor under this contract or otherwise. The Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cost that may be awarded by the court in consequence.

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<i>Employment of female labour</i>	Clause 24 - The employment of female labourers on works in neighbor-hood of soldier's barracks should be avoided as far as possible. The contractor shall employ the labour with the nearest employment exchange.
<i>Work on Sunday</i>	Clause 25 - No work shall be done on a Sunday without the sanction in writing of the Engineer-in-charge.
<i>Work not to Sublet.</i> <i>Contract may be rescinded and security deposit forfeited for subletting it approval or for bribing a public officer or if contractor becomes insolvent.</i>	Clause 26 - The contract shall not be assigned or sublet without the written approval of the Engineer- in- charge. And if the Contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any proceedings to get himself adjudicated and insolvent or make any composition with his creditors, or attempt so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the Contractor or any of his servants or agents to any public officer of person in the employment of Government in any way relating to his office or employment , or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer – in- charge may thereupon by notice in writing rescind the contract, and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Government, and the same consequences shall ensure as if the contract had been rescinded under Clause 3thereof and in addition the Contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.
<i>Sum Payable by way compensation to be considered as reasonable compensation without reference to actual loss.</i>	Clause 27 - All sums payable by a Contractor by way of compensation under any of these conditions shall be considered as a reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained, and whether any damage has or has not been sustained.
<i>Changes in the constitution if firm to be notified</i>	Clause 28 - In case of tender by partners, any change in the constitution of a Firm shall be forthwith notified by the Contractor to the Executive –in-charge for his information.
<i>Direction and control of the Superintending Engineer.</i>	Clause 29 - All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Superintending Engineer of the Circle, for the time being, who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

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<p>Direction and control of the Superintending Engineer.</p>	<p>Clause 30 (1) - Except where otherwise specified in the contract and subject to the powers delegated to him by Government under the code, rules then in the force, the decision of the Superintending Engineer of the Circle for the time being shall be final conclusive and binding on all parties of the contract upon all questions relating to the meaning of the specifications, designs, drawings and instruction hereinbefore mentioned and as to the quality of workmanship, or materials used on the work, or as to any other question, claim, right, matter or thing whatsoever, if any way arising out of , or relating to the contract, designs, drawings, specifications, estimates, instructions, orders, or these conditions, or otherwise concerning the works, or the execution, or failure to execute the same, whether arising during the progress of work, or after the completion or abandonment thereof.</p> <p>Clause 30 (2) - the Contractor may within thirty days of receipt by him of any order passed by the Superintending Engineer of the Circle as aforesaid appeal against it to the Chief Engineer concerned, with the contract work or project provided that - (a) The accepted value of the contract exceeds Rs. 10 lakhs (Rupees Ten lakhs) (b) Amount of claim is not less than Rs.1.00 lakhs (Rupees one lakh)</p> <p>Clause 30 (3) - If the Contractor is not satisfied with the order passed by the Chief Engineer as aforesaid, the Contractor may, within thirty days of receipt by him of any such order appeal against it to the concerned Secretary, Govt. College of Engg. Karad / Irrigation Department who. if convinced that prima-facie the Contractor's claim rejected by the Superintending Engineer/ Chief engineer is not frivolous and that there is some substance in the claim of the Contractor as would merit a detailed examination and decision by the Standing Committee shall put up to the Standing Committee at Government level for suitable decision (Vide PWD Circular No. CAT-1086-CR-110/Bldg.2, dated 7.5.11286).</p>
<p>Stores of European or American manufacture to be obtained from the Government.</p>	<p>Clause 31 - The Contractor shall obtain from Departmental stores all stores and articles of European or American manufacturer which may be required for the work. , or any part thereof or in making up any articles required thereof or in connection therewith unless he has obtained permission in writing from the Engineer-in-charge to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the Contractor by the Engineer-in-charge will be debited to the Contractor in his account at the rates shown in the Schedule in Form 'A' attached to the contract</p>

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	and if they are not entered in the said schedule, they shall be debited to him at cost price which for the purpose of this contract shall include the cost of carriage and all other expenses whatsoever, which shall have been incurred in obtaining delivery of the same at the store aforesaid.
Lumpsums in estimates	Clause 32 - When the estimate on which a tender is made includes lumpsums in respect of parts of the work, the Contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for each item, or if the part of the work in question is not in the opinion of the Engineer-in-charge capable of measurement, the Engineer-in-charge may at his discretion pay the lumpsum amount entered in the estimate and the certificate in writing of the Engineer-in-charge shall be final and conclusive against the Contractor with regard to any sum or sums payable to him under the provisions of this clause.
Actions where no specifications.	Clause 33 - In the case of any class of work for which there is no such specifications as is mentioned in Rule 1 of Form B-1 such work shall be carried out in accordance with the Divisional specifications, and in the event of there being no Divisional specification, then in such case the work shall be carried out in all respect in accordance with all instructions and requirements of the Engineer-in-charge.
Definition of work	Clause 34 - The expression "Work" or "Works" where used in these conditions, shall unless there be something in the subject or context repugnant to such construction, be construct to mean the work or works contracted to be executed under or in virtue of the contract, where temporary or permanent an whether original, altered, substituted or additional.
Contractor's percentage whether applied to net or gross amount of bill	Clause 35 - The percentage referred to in the tender shall be deducted from / added to the gross amount of the bill before deducting the value of any stock issued
Payment of quarry fees and royalties G.R.No. Misc. 02/05/(2121)/Buildg. 2, dated 11/12/2003	Clause 36 - All quarry fees, royalties, octroi dues and ground rent for stacking materials, if any, shall be paid by the Contractor.

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<p>Compensation under Workmen's Compensation Act.</p>	<p>Clause 37 - The Contractor shall be responsible for and shall pay any compensation to his workmen payable under the Workmen's compensation Act, 11223 (VII of 11223) , (hereinafter called the said Act) for injuries caused to the workmen. If such compensation is payable / pad by the Government as principal under sub-section (1) of Section 12 the said Act on behalf of the Contractor, it shall be recoverable by the Government from the Contractor undersub-section (2) of the said section. Such Compensation shallbe recovered in the manner laid down in Clause 1 above.</p> <p>Clause 37 (A) - The Contractor shall be responsible for and shall pay the expenses of providing medical aid to any workman who may suffer a bodily injury as a result of an accident. If such expenses are incurred by Government, the same shall be recoverable from the Contractor forthwith and be deducted without prejudice to any other remedy of the Government from any amount due or that may become due to the Contractor.</p> <p>Clause 37 (B) - The Contractor shall provide all necessary personal safety equipment and first aid apparatus available for the use of the persons employed on the site and shall maintain the same in condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith.</p> <p>a) The workers shall be required to use the equipment so provided by the contractor and the Contractor shall take adequate steps to ensure proper use of the equipment by those concerned.</p> <p>b) when work is carried on in proximity to any place where there is a risk of drowning all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.</p> <p>c) Adequate provision shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.</p>
<p>Govt. Circular No. PWD/ID CAT-6076/3336/(400)/ Bldg.2, dated 16/08/11285.</p>	<p>Clause 37 (C) - The Contractor shall duly comply with the provisions of " the Apprentices Act, 11261" (III of 11261) , the rules made thereunder and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so , he shall be subjected to all the liabilities and penalties provided by the said Act and said Rules.</p>

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<p><i>Claim for quantities entered in the tender or estimate</i></p>	<p>Clause 38 - 1. Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any of the Items so long as, subject to any special provision contained in the specifications prescribing a different percentage of permissible variation in the quantity of the item does not exceed the tender quantity by more than 25 percent and so long as the value of the excess quantity beyond this limit at the rate of the item specified in the tender, is not more than Rs. 5,000/-</p> <p>2. The Contractor shall if ordered in writing by the Engineer so to do, also carry out any quantities in excess of the limit mentioned above in Sub-clause (i) hereof on the same conditions as and in accordance with the specifications in the tender and at the rates (i) derived from the rates entered in current Schedule of Rates and in the absence of such rates (ii) at the rates prevailing in the market. The said rates being increased or decreased as the case may be by the percentage which the total tendered amount bears to the estimated cost of the works as put to tender based upon the schedule of rates applicable to the year in which the tenders were accepted. For the purpose of operation of this Clause, this cost shall be worked out from the prevailing District Schedule of Rates at the time of acceptance of tender for. SSR 2022-2023 for Rs.65546390/- (Rupees Six Crore Fifty Five Lakhs Forty Six Thousand Three Hundred Ninety Only.)</p> <p>3. Claims arising out of reduction in the tendered quantity of any item beyond 25 percent will be governed by the provision of Clause 15 only when the amount of such reduction beyond 25 percent at the rate of the item specified in the tender is more than Rs. 5,000/- (the clause is not applicable to extra items).</p> <p>4. This clause is not applicable to extra items.</p> <p>5. There is no change in the rate if the excess is more than 25 percent of the tendered quantity. But the value of the excess work at the tendered rates not exceed Rs. 5,000/-.</p> <p>6. The quantities to be paid at the tendered rates shall include:</p> <p>a) Tendered quantity plus</p> <p>b) 25% excess of tendered quantity or the excess quantity of the value of Rs. 5,000/- at tendered rate whichever is more.</p> <p>(Govt. of Maharashtra P.W.Department, Mantralaya, Mumbai, Govt.Circular No CAT-2017/Pra.Kra. 8 / Building-2, Date.27/09/2018.) and Govt. of Maharashtra P.W.Department, Mantralaya, Mumbai, Govt.Circular No Sankirna-2004/Pra.Kra. 85 / Roads-1, Date.11/06/2004.</p>
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<i>Employment of famine labour etc.</i>	Clause 39 - The Contractor shall employ any famine, convict or other labour of a particular kind or class if ordered in writing to do so by the Engineer-in- Charge.
<i>Claim for compensation for delay in starting the work.</i>	Clause 40 - No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or, in the case of clearance works, on account of any delay in accordance to sanction of estimates.
<i>Claim for compensation for delay in execution of work</i>	Clause 41 - No compensation shall be allowed for any delay in the execution of the work on account of water standing in borrow pits or compartments. The rates are inclusive for hard or cracked soil excavation, excavation in mud, sub-soil, water standing in borrow pits and no claim for an extra rate shall be entertained unless otherwise expressly specified.
<i>Enter upon or commencing any portion of work.</i>	Clause 42 - The Contractor shall not enter upon or commence any portion of work except with written authority and instructions of the Engineer-in- Charge or of his subordinate in charge of the work. Failing such authority the Contractor shall have no claim to ask for measurements of or payment for work.
<i>Minimum age of person employed , the employment of donkeys and/or other animals and the payment of fair wages.</i>	<p>Clause 43 - i) No Contractor shall employ any person who is under the age of 18 years.</p> <p>ii) No Contractor shall employ donkeys or other animals with breaching of string or thin rope. The breaching must be at least three inches wide and should be of tape (Newar).</p> <p>iii) No animal suffering from sores, lameness or emaciation or which is immature shall be employed on the work.</p> <p>iv) The Engineer-in- Charge or his agent is authorised to remove from the work, any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by the Government for any delay caused in the completion of the work by such removal.</p> <p>v) The Contractor shall pay fair and reasonable wages to the workmen employed by him , in the contract undertaken by him. In the event of any dispute arising between the Contractor and his workmen on the ground that the wages paid are not fair and reasonable, the dispute shall be referred without delay to the Executive Engineer who shall decide the same. The decision of the Executive Engineer shall be conclusive and binding on the Contractor but such decision shall not in any way affect the conditions in the contract regarding the payment to be made by the Government at the</p>

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	<p>sanctioned tender rates.</p> <p>vi) Contractor shall provide drinking water facilities to the workers. Similar amenities shall be provided to the workers engaged on large work in urban areas.</p> <p>vii) Contractor to take precautions against accidents which take place on account of labour using loose garments while working near machinery.</p> <p>viii) All facilities provided in the Contract Labour (Regulation and Abolition Act 11271), the Maharashtra Contract Labour Regulation and Abolition Rule 11271 should be provided.</p>
Method of payment	Clause 44 - Payment to Contractors shall be made by cheque drawn on any treasury within the division convenient to them, provided the amount exceeds Rs. 10/- . Amounts not exceeding Rs. 10 will be paid in cash.
Acceptance of conditions compulsory before tendering for work.	Clause 45 - Any Contractor who does not accept these conditions shall not be allowed to tender for work.
Employment of scarcity labour.	<p>Clause 46 - If Government declares a state of scarcity or famine to exist in any village situated within 10 miles of work, the Contractor shall employ upon such parts of the work, as are suitable for unskilled labour, any person certified to him by the Executive Engineer, or by any person to whom the Executive Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay to such person wages not below the minimum which Government may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the Executive Engineer whose decision shall be final and binding on the Contractor.</p> <p>Clause 47 - The price quoted by the Contractors shall not in any case exceed the control price, if any, fixed by Government or reasonable price which it is permissible for him to change a private purchaser for the same class and description, the control price or the price permissible under the provisions of Hoarding and Profiteering Prevention Ordinance, 11248 as amended from time to time. If the price quoted exceeds the controlled price or the price permissible under Hoarding and Profiteering Prevention Ordinance, the Contractor will specifically mention this fact in his tender along with the reasons for quoting such higher prices. The purchaser at his discretion will in such case exercise the right of revising the price at any stage so as to conform with the controller price as permissible under the Hoarding and Profiteering Prevention ordinance. This discretion will be exercised without prejudice to any other action that may be taken against the Contractor.</p>

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<p><i>Maharashtra Value Added Tax Act, 2005 Govt. in P.W. Deptt. Circular No. BDG/ 2005 /CR-324/ Bdg.2 dated 3/3/2006.</i></p>	<p>Clause 47 (A) & 48 – The rates quoted by the Contractor shall be exclusive GST but shall be deemed to be inclusive of other taxes, levies including royalty, cess that the contractor will have to pay for the performance of this contract. The employer will perform such duties in regard to the deduction of such taxes, as applicable at source as per applicable law. GST will be paid to contractors at prevailing rates on bill amount separately.</p> <p>Clause 49 - In case of materials that may remain surplus with the Contractor from those issued for the work contracted for, the date of ascertainment of the materials being surplus will be taken as the date of sale for the purpose of GST and the GST will be recovered on such sale.</p>
<p>PWD Government Resolution No.CAT/10127/CR - 478/Bldg-2, Mantralaya, dated 23 rd March, 112128.</p>	<p>Clause 50 - The contractor shall employ the unskilled labour to be employed by him on the said work only from locally available labour and shall give preference to those persons enrolled under Maharashtra Government Employment and Self Employment Department Scheme. Provided, however, that if the required unskilled labours are not available locally, the contractor shall in the first instance employ such number of persons as is available and thereafter may with previous permission, in writing of the Executive Engineer-in-charge of the said work, obtain the rest of requirement of unskilled labour from the outside the above scheme.</p> <p>Clause 51 - Wages to be paid to the skilled and unskilled labourers engaged by the Contractor.</p> <p>The Contractor shall pay the labourers – skilled and unskilled – according to the wages prescribed by Minimum Wages Act , 11248 applicable to the area in which work of the Contractor is in progress.</p> <p>The Contractor shall comply with the provisions of the Apprentices Act, 11261 and the Rules and Orders issued thereunder from time to time, if he fails to do so. , his failure will be a breach of the Contract and the Superintending Engineer may in his discretion may cancel the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the Act.</p> <p>The Contractor shall pay the labourers – skilled and unskilled – according to wages prescribed by Minimum Wages Act, 11248 applicable to the area in which the work is in progress.</p>

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<p>Government Circular No. CAT 1274/40364/Desk-2, Mantralaya, Mumbai.32 dated 07/12/11276.</p>	<p>Clause 52 - All amounts whatsoever which the Contractor is liable to pay to the Government in connection with the execution of the work including the amount payable in respect of (i) materials and /or stores supplied/issued hereunder by the Government to the Contractor, (ii) hire charges in respect of heavy plant, machinery and equipment given on hire by the Government to the Contractor for execution by him of the work and /or which advances have been given by the Government to the Contractor shall be deemed to be arrears of land revenue and the Government may without prejudice to any other rights and remedies of the Government recover the same from the Contractor as arrears of land revenue.</p>
<p>Government Circular No. CAT 1284/(120)/Building-2, Mantralaya, Mumbai.32 dated 14/08/11285.</p>	<p>Clause 53 - The Contractor shall duly comply with all the provisions of the Contract Labour (Regulation and Abolition) Act, 11270 (37 of 11270) and the Maharashtra Contract Labour (Regulation and Abolition) Rules, 11271 as amended from time to time and all other relevant statues and statutory provisions concerning payment of wages particularly to workmen employed by the Contractor and working on the site of work. In particular the Contractor shall pay wages to each worker employed by him on the site of work at the rates prescribed under Maharashtra Contract Labour (Regulation and Abolition) Rules, 11271. If the Contractor fails or neglects to pay wages at the said rates or makes short payment and the Government makes such payment of wages in full or part thereof less paid by the Contractor, as the case may be, the amount so paid by the Government to such workers shall be deemed to be arrears of land revenue and the Government shall be entitled to recover the same as such from the Contractor or deduct the same from the amount payable by the Government to the Contractor hereunder or from any other amount(s) payable to him by the Government.</p> <p>Clause 54 - The Contractor shall engage apprentice such as brick layer, carpenter, wiremen, plumber, as well as blacksmith by recommended by the State Apprenticeship Advisor, Director of Technical Education, Dhobi Talaw, Mumbai 400 001. In the construction work (as per Government of Maharashtra, Education Department No. TSA/5170/T56812, dated 7.7.11272).</p> <p>Clause 55 - (Government of Maharashtra, P.W.D. Resolution No. CAT-1086/CR 243/K/Bldg.2, Mantralaya, Mumbai dated 11/8/11287).</p>

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	<p><u>CONDITIONS FOR MALARIA ERADICATION, ANTI-MALARIA AND OTHER HEALTH MEASURES.</u></p> <p>a) The anti-malaria and other health measures shall be as directed by the Joint Director (Malaria and Filaria) of Health Services, Pune</p> <p>b) The Contractor shall see that mosquito genic conditions are not created so as to keep vector population to minimum level.</p> <p>c) The Contractor shall carry out anti-malaria measures in the area as per guidelines prescribed under National Malaria Eradication Programme and as directed by the Joint Director (Malaria and Filaria) of Health Services, Pune</p> <p>d) In case of default in carrying out prescribed anti-malaria measures resulting in increase in malaria incidence, Contractor shall be liable to pay to Government the amount spent by the Government on anti-malaria measures to control situation in addition to fine.</p> <p>e) <u>RELATION WITH PUBLIC AUTHORITIES:</u> The Contractor shall make sufficient arrangements for draining away the sewage water as well as water coming from the bathing and washing places and shall dispose off this water in such a way as not to cause any nuisance. He shall also keep the premises clean by employing sufficient number of sweepers. The Contractor shall comply with rules, regulations, bye-laws and directions given from time to time by any local or public authority in connection with this work and shall pay fees or charges which are leviable on him without any extra cost to Government. (Government of Maharashtra, P.W.D. Resolution No. CAT-1086/CR 243/D/Bldg.2, Mantralya, Mumbai, dated 11/12/11287).</p> <p><u>Clause 56 - CONDITIONS RELATING TO INSURANCE OF CONTRACT WORK.</u></p> <p>The Contractor shall take out Insurance Policy/ Policies (viz. Contractor's All Risks Insurance Policy, Erection All Risks Insurance Policy etc. as directed by the Directorate of Insurance) so as to vide adequate insurance cover for execution of the awarded contract work for total contract value and complete contract period</p> <p><u>COMPULSORILY</u> from the "Directorate of Insurance, Maharashtra State, Mumbai" only. Its postal address for correspondence is " 264, MHADA, First Floor, Opposite Kalanagar, Bandra (East), Mumbai 400 051."</p>
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	<p>(Telephone No. 022 – 265120403 / 2651206120 and Fax No. is 022-265122461 / 265120403). Similarly, all workmen appointed to complete the contract work are required to insure under workmen's compensation Insurance Policy. Insurance Policy/ Policies taken out from any other company will not be accepted. If any contractor has not taken out the Insurance Policy from the</p> <p>Directorate of Insurance, Maharashtra State Mumbai or have effected insurance with any Insurance Company, the same will not be accepted and one percent (1%) of the tender document or such amount of premium calculated by the Government Insurance Fund will be recovered directly from the amount payable to the Contractor for the executed contract work and paid to the Directorate of Insurance Fund, Maharashtra State, Mumbai. The Director of Insurance reserves the right to distribute the risks of insurance among the other insurers.</p>
<p>Government in P.W.Deptt. letter (in Marathi) No. Misc./ 10 / 012 / Pra.Kra.277/ Bldg.-2, Mantralaya, Mumbai.32 dated 17/08/2010.</p>	<p>Clause 57 - Building and Other Construction Workers Welfare Cess</p> <p>As per Government of Maharashtra, Industry, Energy & Labour Deptt. G.R. No. BLA 20012/Pra.Kra.108/Kamgar-7A, dt. 17/6/2010& Public Works Department Circular No. BDG-2010/Pra.kra. 277/Building-2, dated 28/012/2010, Building and Other Construction Workers Welfare Cess at one percent or at the rates amended from time to time as intimated by the competent authority under Building and Other Constructions Worker Welfare Act 112126 will be deducted from the Bill amount, whether measured Bill, advance payment or Secured Advance.</p>

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NAME OF WORK :- CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA.

SCHEDULE - A

Schedule showing (approximately) the materials to be supplied from the Government College of Engineering, Karad Stores for the work contacted to be executed and preliminary and ancillary works and the rates at which they are to be charged for

Sr. No.	Particulars	Quantity	Unit	Rates at which the material will be charged to the Contractor		Place of delivery
				In Figure	In Words	
1	2	3	4	5	6	7
			-----	Nil	-----	

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Condition for procurement of Cement / Steel etc. for the work

1. Price Variation of Cement / Steel will be paid / recovered as per conditions mentioned in Star Rate Clause, if there is provision of this clause in the tender document.
2. Contractor can purchase cement from manufacturer or his authorized dealer.
3. Price Variation of Cement will be assessed and paid or recovered as per Star Rate mentioned in Tender and rate of cement actually purchased for the work, if there is provision of this clause in the tender document.
4. Contractor can purchase steel from any reputed steel manufacture (such as SAIL, TATA STEEL, ISPAT or any other manufacture recognized by government) or their authorized dealers.
5. Price Variation of Steel will be paid or recovered as per Star Rate mentioned in Tender and actual rate of steel purchased for the work if there is provision of this clause in the tender document.
6. Contractor shall submit Tax invoice with GST number for the asphalt or any other material purchased for the work from private refineries, public sector refineries or private importer agencies.
7. Contractor shall be solely responsible for genuineness / correctness of vouchers tax invoices, of cement, steel etc. purchased by him through any source Government College of Engineering, Karad's Junior Engineer/ Sectional Engineer/ Deputy Engineer / Executive Engineer of any other Officers/ Staff will not be responsible for genuineness / correctness of the tax invoices and any other supporting documents submitted by contractor for purchase of material.
8. If any tax invoice or other supporting document of material purchased is found suspicious, Principal is empowered to verify and if found forged/ false, file criminal case as per Criminal Procedure Code against the contractor even though contractor is paid final bill.
9. If any tax invoice or other supporting document of material purchased seems to be suspicious Principal or empowered to verify the same & if it is found forged/ false, principal will file the criminal case against the contractor as per criminal procedure code.
10. If any tax invoice its supporting documents of material supplied is found forged/ false criminal proceeding shall be initiated against that contractor and contractor shall be black listed forever for all works in Government College of Engineering, Karad.
11. Testing of Cement, Steel and other construction material as per required frequency are to be conducted as per quantity of material required for the work. Out of total tests 30 % tests are to be carried out in Government College of Engineering, Karad laboratory and the remaining 70 % tests are to be carried

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out in the contractor's laboratory at site of work. If contractor has not erected laboratory at site of work, then tests are to be carried out in laboratory of Engineering Colleges or Government laboratory.

12. Contractor shall also be responsible for carry out the other specific tests mentioned in the tender document.

13. For the works costing Rs. 5.00 cr. or more, contractor who are having facility to conduct required asphalt tests and has other modern machinery required for asphalt test will only be qualified for opening of financial envelope.

14. Contractor is responsible for submission of tax invoices and other supporting documents in 4 copies up to 5th date of next month to the institute. If contractor does not submit tax invoice and any other required document as mentioned above within time, contractor himself will be responsible for delay of bill payment. One copy of the tax invoice signed by Principal will be returned to contractor for tax audit purpose.

15. Contractors' bills are based and paid on the measurements of completed item executed. Therefore, there is no need to record measurements of asphalt in measurement book. However, contractor shall submit material wise abstract in prescribed format for material consumed and tax invoice and other documents of purchase. This consumption statement will be checked by Divisional Accountant and Executive Engineer with respect to quantities of material mentioned in supporting vouchers. Further contractor shall also submit certificate stating that Tax invoices and other documents submitted with bills are not false / forge. This certificate shall be attested by Divisional Accountant and Executive Engineer. In future if these tax invoices and any other documents is found false / forge, criminal case is to be filed against the contractor.

Other Conditions for Material

16. The materials not conforming to the required standard shall be removed at once from the site of work by the Contractor at his own cost. All the materials such as Asphalt, Cement etc. required for use in the work shall be confirming to the relevant I.S./M.O.R.T.&H. specifications. The Contractor shall get necessary tests carried out to the frequency specified for each material in the specification and submit the test results to the Engineer-in-charge or his authorized representative. These materials shall be used on work by the Contractor, only if the test thereof is found satisfactory to the results by Engineer-in-charge or his authorized representative. For the purpose of daily testing of material, such metal, sand, rubble, etc., the Contractor shall make his own arrangements to install a well-equipped Laboratory at the site of work at his own cost. The Contractor shall employ qualified personnel at the site of work at his own cost. The responsibility of carrying out tests to the frequency specified for each material shall rest with the Contractor.

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17 . The Contractor shall construct at his own cost shed/ sheds as per direction of the Engineer-in-charge of the work for storing the materials and provide double locking arrangements. The Store sheds such constructed shall be removed on completion of work. The Contractor shall take all necessary steps to guard the materials brought by him.

18 The Contractor shall make his own arrangement for the safe custody of the materials brought by him on site of work.

19. The charges for conveying of materials from the place of purchase by the Contractor to the site of work and the actual spot-on work site shall be entirely borne by the Contractor. No claims on this account shall be entertained.

20. The material required only for this work shall be kept in the godown at site. No material shall be shifted outside the godown except for the work for which this arrangement is done, without prior approval of the Engineer-in-charge.

21. The Contractor shall produce sufficient documentary evidence i.e. Tax Invoice bill for the purchase, octroi receipts etc. for the purchase of material brought on the work site at once if so requested by the Institute.

22. All these materials i.e. cement, steel etc. shall be protected from any damages, rains etc.by the contractor at his own cost.

23. The Contractor will have to erect temporary shed of approved specifications for storing of above materials at work site at contractors' cost having double lock arrangements (By Double lock - it is meant that godown shall always be locked by two locks, one lock being owned & operated by Contractor & other by Engineer-in- charge of his authorized representative & the door shall be openable only after both locks are opened.)

24. If required, the weighment of cement bags/ steel/ etc. brought by the Contractor shall be carried out by the contractor at his own cost.

25. The Government shall not be responsible for the loss in cement, steel, etc. during transit to work site. The cement brought by the contractor at the work site store shall mean 50 Kg. equivalent to 0.0347 Cubic Meter per bag by weight. The rate quoted should correspond to this method of reckoning. In case of ordinary/controlled concrete, if cement is found short, the shortage/shortages will be made good by the contractor at his cost.

26. ANNEXURE FOR R.C.C. PIPE PROCUREMENT: The **R.C.C. pipes** required for the work shall be procured from the **MISSIDC only**. The payment towards providing and fixing **NP2 / NP3/ NP4 pipes** will be released only after the contractor submits the bill of **MISSIDC** to authenticate that the pipes have been purchased from the **MISSIDC**. No payment towards the item of providing and laying of the pipe will be released in absence of the submission of the requisite document. After completion of these items in the particular kilometer the withheld payment will be finally released.

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27. INDEMNITY: The condition regarding indemnity as defined in Additional General Conditions and Specifications at Sr.No.4 will apply mutatis mutandis in case of material brought by contractor at the site for the execution of the work being executed under this contract.

28. In case the material brought by the Contractor become surplus owing to the change in the design of the work, the material should be taken back by the Contractor at his own cost after prior permission of Engineer-in-charge.

29. Empty asphalt drums shall be the property of the Contractor and the same shall be removed immediately after completion of work.

30. The Contractor shall make his own arrangement for supply of materials including bitumen, cement, steel, RCC pipes / Collars. The Contractor shall be responsible for all transportation and storage of the materials at the site and shall bear all the related costs. The Engineer shall be entitled at any time, to inspect or examine all such materials. The Contractor shall provide reasonable assistance for such inspection or examination as may be required.

31. The Contractor shall keep as accurate record of use of materials like bitumen, cement and steel used in the works in a manner prescribed by the Engineer.

32. If there is any doubt regarding the material received, on the work site the same should be get tested from the Government laboratory at the cost of the Contractor, and if the results are substandard, the material or the work executed with such material will be rejected.

33. The testing charges shall be entirely borne by the Contractor.

SPECIAL ATTENTION OF CONTRACTOR FOR EXECUTION

Procurement of Material:

Institute will not supply any material for execution of work such as Cement, Tor Steel, Asphalt etc. The contractor has to arrange the same from his own source. The quality of the material brought to the site by the contractor should be verified through the various tests provided as per relevant Indian Standards at the cost of the contractor.

The adjustment for variation in cost prices of Mild steel and Tor steel bars, structural steel, cement (all tested quality) shall be separately made corresponding to the difference in the cost as per the basic price mentioned hereafter as per Price Variation Clause.

The contractor shall construct shed/sheds at his own cost and as per direction of Engineer-in-charge for storing the materials brought by him and provide double locking arrangements, one lock shall be in the charge of departmental person and the material shall be taken for use in presence of the departmental person only.

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PRICE VARIATION CLAUSE/STAR RATE CLAUSE

If during the operative period of the contract as defined in condition (i) below , there shall be any variation in the Consumer Price Index (New Series) for industrial workers for **Pune Centre** as per the Labour Gazette published by the Commissioner of Labour, Government of Maharashtra and / or in the Wholesale Price Index for all commodities prepared by the Office of Economic Advisor, Ministry of Industry, Government of India, or in the price of Petrol / Oil and Lubricants and major construction materials like Bitumen, Cement , Steel , various types of metal pipes etc., then subject to other conditions mentioned below, price adjustment on account of **1) Labour Component 2) Material Component 3) Petrol , Oil and Lubricants Component 4) Bitumen Component 5) HYSD and Mild Steel Component 6) Cement Component 7) C.I. and D.I. Pipes Component**, calculated as per the formulae hereinafter appearing shall be made. Apart from these, no other adjustments shall be made to the contract price for any reasons whatsoever. Component percentage as given below are as of the total cost of work put to tender. **Total of Labour, material and POL components shall be 100 and other components shall be as per actual.**

1.	Labour Component:		K1	36.00 %
2.	Material Component	:	K2	63.00 %
3.	POL Component	:	<u>K3</u>	<u>01.00 %</u>
				<u>%</u>
4.	Bitumen Component	:		Actual
5.	T.M.T./HYSD & Steel Component	:		Actual
6.	Cement Component	:		Actual
7.	C.I. and D.I. Pipe Component	:		Actual

Note : If Cement, Steel, Bitumen, C.I. and D.I. Pipes are supplied on Schedule 'A' , then respective component **shall not be considered**. Also if particular component is not relevant same shall be deleted.

(1) **Formula for Variation of Labour Components**

$$V_1 = 0.85 \times P \times \left\{ \frac{K_1}{100} \times \left(\frac{L_1}{L_0} - 1 \right) \right\} \quad \text{where,}$$

V₁ = Amount of price variation in Rupees to be allowed for labour component.

P = Cost of work done during the quarter under consideration.
Minus the cost of Cement, HYSD and Mild Steel, Bitumen, C.I. and D.I. Pipes calculated at the **basic star rates** as applicable for the tender, consumed during the quarter under consideration
(These star rates shall be specified here)

Basic Star Rates (Excluding GST)

1.	TMT FE 500 Steel	Rs.	61000/- / Metric Ton. (Excluding GST)
2.	Structural Steel	Rs.	62575/- / Metric Ton. (Excluding GST)
3.	Cement	Rs.	6000/- / Metric Ton. (Excluding GST)

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- K1** = Percentage of labour component as indicated above.
- L0** = **Basic Consumer price Index** for Pune centre shall be average price index for the quarter preceding the month in which the **last date** prescribed for receipt of tender, falls.
- L1** = **Average consumer price index** for Pune centre for the period under consideration.

(2) **Formula for Variation of Material Component**

$$V2 = 0.85 \times P \times \left\{ \frac{K2}{100} \times \left(\frac{M1}{M0} - 1 \right) \right\} \text{ where,}$$

- V2** = Amount of price variation in Rupees to be allowed for Materials component.
- P** = Same as worked out for labour component.
- K2** = Percentage of material component as indicated above.
- M0** = **Basic** wholesale price Index shall be average wholesale price index for the quarter preceding the month in which the last date prescribed for receipt of tender, falls.
- M1** = **Average** wholesale price index during the period under consideration.

(3) **Formula for Variation of Petrol , Oil, and Lubricant Component**

$$V3 = 0.85 \times P \times \left\{ \frac{K3}{100} \times \left(\frac{P1}{P0} - 1 \right) \right\} \text{ where,}$$

- V3** = Amount of price variation in Rupees to be allowed for POL component.
- P** = Same as worked out for labour component.
- K3** = Percentage of Petrol, Oil and Lubricant component.
- P0** = Average Price of HSD at Mumbai during the quarter preceding the month in which the last date prescribed for receipt of tender falls.
- P1** = **Average** price of HSD at Mumbai during the period under consideration.

VARIATION FOR BITUMEN, STEEL, CEMENT (STAR RATE CLAUSE)

(4) **Formula for Variation of Bitumen**

$$V_4 = (PRB - SRB) \times QB$$

- PRB** = Purchase Price of Bitumen (Excluding GST) as per Original Tax Invoice submitted by the Contractor or Government refinery rate (Excluding GST) for the period under consideration whichever is lower.
- SRB** = Basic Star Rate of Bitumen in Rs. Per M.T. (Excluding GST)
- QB** = Quantity of Bitumen Consumed in M.T. .(Excluding GST)

(5) **Formula for Variation of TMT/ HYSD and Mild Steel Component**

$$V5 = \left\{ \frac{S0 (SI1 - SI0)}{SI0} \right\} \times T \quad \text{where,}$$

- V5** = Amount of price variation in Rupees to be allowed for **TMT/ HYSD/ Mild Steel** component.
- S0** = Basic Star Rate of **TMT/ HYSD/ Mild Steel** in rupees per metric tonne as considered for working out value of P.
- SI1** = Average Steel Index as per RBI Bulletin during the period under consideration..
- SI0** = Average Steel index as per RBI Bulletin during the quarter preceding the month in which the last date prescribed for receipt of tender, falls.
- T** = Tonnage of Steel used in the permanent works for the period under consideration.

(6) **Formula for Variation of Cement Component**

$$V6 = \left\{ \frac{C0 (CI1 - CI0)}{CI0} \right\} \times T \quad \text{where,}$$

- V6** = Amount of price variation in Rupees to be allowed for **Cement** component.
- C0** = Basic Star Rate of **Cement** in rupees per metric tonne as considered for working out value of P..
- CI1** = Average **Cement** Index published in RBI Bulletin for the period under consideration..
- CI0** = Average **Cement** index published in RBI Bulletin for the quarter preceding the month in which the last date prescribed for receipt of tender, falls.
- T** = Tonnage of Cement used in the permanent works for the period under Consideration.

(7) **Formula for Variation of C.I. / D.I. Pipe Component**

$$V7 = Q0 \times (D1 - D0) \quad \text{where,}$$

- V7** = Amount of price variation in Rupees to be allowed for **C.I./D.I. Pipe** component.
- D0** = Pig iron Basic Star Rate in rupees per metric tonne as considered for working out value of P.
- D1** = Average **Pig Iron price** in rupees per tonne during the period under consideration (Published by **HSCO**) .
- Q0** = Tonnage of **C.I./D.I. Pipes** used in the permanent works for the period under Consideration.

FOLLOWING CONDITIONS SHALL PREVAIL FOR PAYMENT OF PRICE VARIATION AS PER PRICE VARIATION CLAUSE / STAR RATE CLAUSE

- (i) The **operative period** of the **Contract** shall mean the period commencing from the date of the work order issued to the Contractor and ending on the date on which the time allowed for the completion of the works specified in the Contract for work expires, taking into consideration the extension of time, if any for completion of the work granted by Engineer under the relevant clause of the Conditions of Contract in cases other than those where such extension is necessitated on account of default of the Contractor. The decision of the Engineer as regards the operative period of the Contract shall be final and binding of the Contractor. Where any compensation for **liquidated** damages is levied on the Contractor on account of delay in completion or inadequate progress under the relevant Contract provisions, the Price adjustment amount for the balance work from the date of levy of such compensation shall be worked out by pegging the indices **L1 , M1, C1 ,P1 , PRB, SI1 and CI1** to the levels corresponding to the date from which such compensation is levied.
- (ii) This Price Variation Clause shall not apply for piece works. This price variation shall be determined during each quarter as per formula given above in this Clause.
- (iii) This Price Variation under this Clause **shall not be payable for the extra items** required to be executed during the completion of the work and also on the excess quantities of items payable under the provisions of Clause 38/37 of the contract from **B-1/ B-2 / SBD** respectively. Since the rates payable for extra items or the extra quantities under Clause 38/37 are to be fixed as per current DSR or as mutually agreed to yearly revision till completion of such work. In other words, when the completion/ execution of extra items as well as extra quantities under Clause 38/37 of the contract from **B-1/B-2 / SBD** extends beyond the operative date of DSR then rates payable for the same beyond the date shall be revised with reference to the current DSR prevalent at that time on year to year basis or revised in accordance with mutual agreement thereon, as provided for in the Contract, wherever is less.
- (iv) This clause is **operative both ways**, i.e., if the price variation as calculated above is one the plus side, payment on account of the price variation shall be allowed to the contractor and if it is on the **negative side**, the Government shall be entitled to recover the same from the contractor and the amount shall be deductible from any amounts due and payable under the contract.
- (v) To the extent that full compensation for any rise or fall in costs to be contractor is **not entirely covered by the provision of this or other clauses** in the contract, the unit rate and prices included in the contract shall be deemed to include amounts to cover the contingency of such other actual rise or fall in costs.

Maximum amount due to price variation for Labour Component, Material Component and Petrol, Oil & Lubricant Component will be restricted to 5% of the accepted contract value excluding the variation payable for bitumen, steel, cement and C.I / D.I. Pipe Component as per Star Rate Clause.

ADDITIONAL GENERAL CONDITIONS AND SPECIFICATIONS

I N D E X

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ADDITIONAL GENERAL CONDITIONS AND SPECIFICATIONS

1. **These are to apply as additional conditions and specifications unless otherwise already provided for contradictorily elsewhere in the contract.**

MORTH Specification for Road and Bridges Work latest edition with all amendments) :

MORTH Specification for Road and Bridge Work (2001) shall form part of the contract documents and the contractors shall be legally bound to the various provisions made therein unless and otherwise specifically relaxed or waived wholly or partly by any special clauses in the contract documents.

2. **CONTRACTOR TO STUDY SITE CONDITIONS**

The Contractor shall be deemed to have carefully examined the work and site conditions including labour, the general and the special conditions, specifications, schedules and drawings and shall be deemed to have visited the site of work and to have fully informed himself regarding the local conditions and carried out his own investigations to arrive at rates quoted in the tender. In this regard, he will be given necessary information to the best of knowledge of Institute but without any guarantee about it.

If he shall have any doubt as to the meaning of any portions of these general conditions or the special conditions, or the scope of work or the specifications and drawings, or any other matter concerning the contract, he shall in good time, before submitting his tender, set forth the particulars thereof and submit them to the **Principal, Government College of Engineering, Karad** in writing in order that such doubts may be clarified authoritatively before tendering.

Once a tender is submitted, the matter will be decided according to tender conditions in the absence of such authentic pre-clarification.

3. **DECLARATION OF THE CONTRACTOR:**

The Contractor should sign the declaration form on Page No.

4. **INDEMNITY:**

The Contractor shall indemnify the Government against all actions, suits, claims and demands brought or made against him in a respect of anything done or committed to be done by the Contractor in execution of or in connection with the work of this contract and against any loss or damage to the Government in consequence of any action or suit being brought against the Contractor for anything done or committed to be done in the execution of the work of this contract. The Government may at its discretion and entirely at the cost of the Contractor defend such suit, either jointly with the Contractor or single in case the latter chooses not to defend the case.

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5. DEFINITIONS:

Unless excluded by or repugnant to the context.

a) The expression “Government” as used in the tender papers shall mean the Government College of Engineering, Karad of the Government of Maharashtra.

b) The expression “Chief Engineer” as used anywhere in the tender papers shall mean Chief engineer of the Government of Maharashtra who is designated as such.

c) The expression “Superintending Engineer” as used in the tender papers shall mean an officer of Superintending Engineer’s rank (by whatever designation he may be known) under whose control the work lies for the time being.

d) The expression “Engineer” or “Engineer-in-charge” as used in the tender papers shall mean the Executive Engineer-in-charge of the work for time being.

e) The expression “Contractor” used in the tender paper shall mean the successful tenderer whose tender has been accepted and who has been authorised to proceed with the work.

f) The expression “Contract” as used in tender papers shall mean the deed of contract together with its original accompaniments and those latter incorporated in it by mutual consent.

g) The expression “Plant” as used in the tender papers shall mean every temporary and necessary or considered necessary by the Engineer to execute, construct, complete and maintain the works and used in, altered, modified, substituted and additional work ordered in the time and the manner herein provided and all temporary materials and special and other articles of appliances of every sort, kind and description whatsoever intended or used therefor.

h) “Drawings” shall mean the drawings referred to in the specifications and any modifications of such drawings approved in writing by Engineer and such other drawings as may from time to time furnished or approved in writing by the Engineer.

i) “Engineer’s representative” shall mean an assistant of the Engineer notified in writing to the Contractor by the Engineer.

j) “Provisional sum” or “Provisional lump sum” shall mean a lump sum included by Government in tender documents and shall represent the estimated value of work for which details are not available at the time of issue of tender.

k) “Provisional Items” shall mean items for which approximate quantities have been included in the tender documents.

l) The “site” shall mean the lands and /or other places, on under, in or through which the work is to be executed under the contract including any other lands or places which be allotted by Government or used for the purpose of contract.

m) The “Work” shall mean the works to be executed in accordance with the Contract or part(s) thereof as the case may be and shall include all extra or additional, altered or substituted works as required for performance of the Contract.

n) The “Contract Sum” shall mean the sum for which the tender is accepted.

o) The “Accepting Authority” shall mean the officer competent to accept the tender.

p) The “Day” shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in any day in that week.

q) “Temporary works” shall mean all temporary works of every kind required in or about the execution, completion, or maintenance of the works.

r) “Urgent works” shall mean any measure which, in the opinion of the Engineer-in-charge, become necessary during the progress of the works to obviate any risk or accident or failure or which become necessary for security of the work or the persons working, thereon.

Where the context so requires, words importing the singular only also include the plural and vice-versa.

Heading and marginal notes, if any, to the general conditions shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof of the contract.

Wherever there is mention of “Schedule of rates” of the Division or simply D.SR. in this tender, it will be taken to mean as “ the Schedule of the rate of the Division in whose jurisdiction the work lies”.

6. ERRORS, OMISSIONS AND DISCREPANCIES:

a) In case of errors, omissions, and/ or disagreement between written and scaled dimensions on the drawing or between drawings and specifications etc., the following order of preference shall apply.

i) Between actual, scaled and written dimensions or descriptions on a drawing the letter shall be adopted.

ii) Between the written or shown description or dimensions in the drawing and corresponding one in the specifications, the latter shall apply.

iii) Between the quantities shown in schedule of quantities and those arrived at from the drawings, the latter shall be preferred.

iv) Between the written description of the item in the schedule of quantities and the detailed description in the specifications of the same items, the later shall be adopted.

b) In case of discrepancy between percentage rate quoted in figures and words, the lowest of the two will be considered for acceptance of tender.

c) In all cases of omissions and/or doubts or discrepancies in the dimensions or description of any item or specifications, a reference shall be made to the **Principal, Government College of Engineering, Karad** whose elucidation, elaboration or decision shall be considered as authentic. The Contractor shall be held responsible for any errors that may occur in the work through lack of such reference and precaution.

d) The special provision in detailed specifications and wording of any item shall gain precedence over corresponding contradictory provisions (if any) in the Standard Specifications of Public Works Department Hand Book where reference to such specifications is given without reproducing the details in contract.

7. PROGRAMME OF WORK

7.1 The work is required to be completed within a period of **24 (Twenty Four) months** (including the monsoon period) The Contractor shall submit the tentative Bar Chart before commencement of work.

7.2 a) METHODOLOGY OF CONSTRUCTION AND CONSTRUCTION EQUIPMENTS.

Construction Machinery / Equipment:

1 The methodology and equipment's to be used on the project shall be furnished by the Contractor to the Engineer-In-Charge well in advance of commencement of work and approval of the Engineer-In-Charge obtained prior to its adoption and use.

2 The Contractor shall give, a trial run of the equipment for establishing its capability to achieve the laid down specifications and tolerance to the satisfaction of the Engineer-in-Charge before commencement of work, if so desired by the Engineer-In-Charge.

3 All equipment's provided shall be of proven efficiency and shall be operated and maintained at all times in the manner acceptable to the Engineer-In-Charge.

4 No equipment or personnel shall be removed from the site without permission of the Engineer-In-Charge.

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Contractor shall furnish at least 15 days in advance his programme of commencement of item of work, the details of actual methods that would be adopted by the Contractor for the execution of various items of work such as well sinking, cast- in-situ, super-structure for Bridge work and Earthwork, W.B.M., Black topping items etc. for Road works supported by necessary detailed drawing and sketches including those of the Plant and Machinery that would be used, their locations, arrangement for conveying and handling materials etc. and obtain prior approval of the Engineer-in- charge well in advance of starting of such item of work. The Engineer-in-charge reserves the right to suggest modifications or make complete changes in the method proposed by the Contractor, where accepted previously or not at any stage of the work, to obtain the desired accuracy, quantity and progress of the work which shall be binding on the Contractor, and no claim on account of such change in method of execution will be entertained by Government so long as specifications of the item remain unaltered. The sole responsibility for the safety and adequacy of the methods adopted by the Contractor, will however, rest on the Contractor, irrespective of any approval given by the Engineer.

Abrasion Testing Machine for Tiles of standard make confirming to IS – 1237 & 1706 with suitable thickness measuring device to measure wear of the tile. It shall be suitable for operation on 415 v/50 Hz, 3 phase AC supply.

In case of slippage from the approved work programme at any stage, the Contractor shall furnish revised programme to make up the slippage within the stipulated time schedule and obtain the approval of the Engineer to the revised programme.

b) CONSTRUCTION EQUIPMENT AND LOCATION:

i) The Contractor shall be required to give a trial run of the equipment for establishing their capability to achieve and laid down specifications and tolerance to the satisfaction of the engineer before commencement of the work. All equipment provided shall be of proven efficiency and shall be operated and maintained at all times, in a manner acceptable to the Engineer and no equipment or personnel will be removed from site without permission of the Engineer.

ii) ~~The Contractor's Hot Mix Plant shall be located within travelling distance of 40 Kms. from the site of work without interruption and natural obstructions and smooth plying of dumpers with average speed of 40 Kms. per hour. Location of Hot Mix Drum Mix Plant should be such that maximum time taken for transporting bitumen mix from plant site to the Paver does not exceed 60 minutes.~~

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c) PROGRESS SCHEDULE :

The Contractor shall furnish within the period of one month of the order to start the work, the programme of work in CPM/PERT charts in quadruplicate indicating the date of actual start, the monthly/ progress expected to be achieved and the anticipated completion date of each major item of work to be done by him, also indicating dates of procurement and setting up of materials, plant and machinery. The schedule is to be such as is practicable of achievement towards the completion of whole work in the time limit, the particular items, if any, on the due dates specified in the contract and shall have the approval of the Engineer-in-charge. No revised schedule shall be operative without such acceptance in writing. The Engineer is further empowered to ask for more detailed schedule or schedules say ; week by week for any item or items, in case of urgency of work as will be directed by him and the Contractor shall supply the same as and when asked for.

The Contractor shall furnish sufficient plant, equipment and labour as may be necessary to maintain the progress of schedule. The working and shift hours restricted to one shift a day for operations to be done under the Government supervision shall be such as may be approved by the Engineer-in-charge. They shall not be varied without the prior approval of the Engineer. Night work which requires supervision shall not be permitted except when specifically allowed by Engineer each time , if requested by the Contractor. The Contractor shall provide necessary lighting arrangements etc. for night work as directed by Engineer without any extra cost to Government.

Further, the Contractor shall submit the progress report of work in prescribed form and charts etc. at periodical intervals, as may be specified by the Engineer in charge. Schedule shall be in the form of progress charts, forms, progress statement and /or reports as may be approved by the Engineer.

The Contractor shall maintain proforma, charts, details regarding machinery, equipment, labour, materials, personnel etc. as may be specified by the Engineer and submit periodically returns thereof as may be specified by the Engineer-in-charge.

Revised Programme of Work in case of slippage:

In case of slippage from the approved work programme at any stage, the contractor shall furnish revised programme to make up slippage within the stipulated time schedule and obtain the approval of the Engineer-in-charge to the revised programme.

Action in case disproportionate progress:

In case of extremely poor progress of the work or any item at any stages of work which in the opinion of the Engineer-In-Charge cannot be made good by the Contractor considering his available resources, the Engineer-In-Charge will get it accelerated to make up the lost time through any other agency, and recover the additional cost incurred, If any, in getting the work done from the Contractor after informing him about the action envisaged by him.

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TREASURE-TROVE:

In the event of discovery by the contractor or his employees, during the progress of the work of any treasure, fossils, minerals or any other articles of value or interest, the contractor shall give immediate intimation thereof to the Engineer and forthwith hand over to the Engineer such treasure or things which shall be the property of Government.

8. AGENT AND WORK-ORDER BOOK

The contractor shall himself manage the work or engage an authorised all-time agent on the work capable of managing the guiding the work and understanding the specifications and contract conditions. A qualified and experienced Engineer shall be provided by the Contractor as his agent for technical matters in case the Engineer-in-charge considers this is essential for the work and so directs Contractors. He will take orders as will be given by the Executive Engineer or his representative and shall be responsible for carrying them out.

This agent shall not be changed without prior intimation to the Executive Engineer and his representative on the work site. The Contractor shall supply to the Engineer the details of all supervisory and other staff employed by the Contractor and notify changes when made, and satisfy the Engineer regarding the quantity and sufficiency of the staff, thus employed. The Engineer will have the unquestionable right to ask for changes in the quality and number of Contractor's supervisory staff and to order removal from work of any of such staff. The Contractor shall comply with such orders and effect replacements to the satisfaction of the Engineer-in-charge.

A work order book shall be maintained on site and it shall be property of Government and the Contractor shall promptly sign orders given therein by the Executive Engineer or his representative and his superior officers and comply with them. The compliance shall be reported by the Contractor to the Engineer in good time so that it can be checked. The blank work order book with machine numbered pages will be provided by the Department free of charge for this purpose. The Contractor will be allowed to copy out instructions therein from time to time.

9. SETTING OUT FOR i) (ROAD WORK)

Setting out:

Setting out the works as spelt out in clause 1012 of Ministry's specifications for Road and Bridge works (2nd Revision) will be carried out by the Contractor.

The contractor shall establish working bench marks in the area soon

after taking possession of the site. The reference Bench mark for the area shall be as indicated in the Contract Documents. The working bench marks shall be at the rate of four per KM and also at or near all drainage structures, over bridge and underpasses. The working bench marks / levels should be got approved from the Engineer. Checks must be made on these bench marks once every month and adjustments if any got agreed with the Engineer and recorded. An upto date contractor and also a copy supplied to the Engineer for his record.

9.1 The lines and levels of formation, side slopes, drainage, carriageways and shoulders shall be carefully set out and frequently checked, care being taken to ensure that correct gradients and cross sections are everywhere obtained.

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9.2 In order to facilitate the setting out of the works, the centre line of the carriageway or highway must be accurately established by the contractor and approved by the Engineer. It must then be accurately referenced in a manner satisfactory to the Engineer, every 50 M. intervals in plain and rolling terrain and 20 M. intervals in hilly terrain and in all curve points as directed by the Engineer, with marker pegs and chainage boards set in or near the fence line, and a schedule of reference dimensions shall be maintained until the works reach finished formation level and are accepted by the Engineer.

9.3 On construction reaching the formation level stage the centre line shall again be set out by the contractor and when approved by the Engineer shall be accurately referenced in a manner satisfactory to the Engineer by marker pegs set at the outer limits of the formation.

9.4 No reference peg or marker shall be moved or withdrawn without the approval of the Engineer and no earthwork or structural work shall be commenced until the centre line has been referenced.

9.5 The Contractor will be the sole responsible party for safeguard all survey monuments, bench marks, beacons etc. The Engineer will provide the contractor with the data necessary for the setting out of the centre line. All dimensions and levels shown on the drawings or mentioned in documents forming part of or issued under the contract shall be verified by the contractor on the site and he shall immediately inform the Engineer of any apparent errors or discrepancies in such dimensions or levels. The contractor shall after or in connection with the setting out of the centre line, survey the terrain along the road and shall submit to the Engineer for his approval, a profile along the road centre line and cross sections at intervals as required by the Engineer.

9.6 After obtaining approval of the Engineer, work on earthwork can commence and the profile and cross sections shall form the basis for measurements and payment. The contractor is responsible for checking that all the basic traverse points are in place at the commencement of the contract and if any are missing, or appear to have been disturbed, the contractor shall make arrangements to re-establish these points.

A " Survey File " containing the necessary data will be made available for this purpose. If in the opinion of the Engineer, design modifications of the centreline or grade are advisable, the Engineer will issue detailed instructions to the contractor and the contractor shall perform the modifications in the field, as required. There will be no separate payment for any survey work performed by the contractor. The cost of these services shall be considered as being included in the cost of the items of work in the Bill of Quantities.

9.7 The work of setting out shall be deemed to be a part of general works preparatory to the execution of work and no separate payment shall be made for the same.

ii) SETTING OUT FOR (BRIDGE WORKS)

Immediately on receipt of the work order, the Contractor shall at his own expense clean the site and take up a provisional and final setting out and lining out of the work under the supervision of his responsible representative and shall provide necessary material, labour, tools, instruments etc. required for the same. One tentative abutment location will be indicated by Engineer-in-charge and the centre line of the

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bridge shall be defined by him. The Contractor will then have to fix up the location of the other abutment. The abutment location will then be verified by the Department and may be adjusted. Once the final location of abutments is so finalized, it will be the Contractor's responsibility to line out and locate the remaining foundations.

The Contractor shall be responsible for true and proper setting out of the work and for the correctness of the positions, level dimensions and arrangements of all parts of works, and for providing all necessary instruments appliances and labours in connection therewith at his own cost. Officers may assist the Contractor in proper setting out. Government instruments may be allowed to be used for setting out of work for which no cost shall be recovered from the Contractor. If at any time during the progress of work, any errors arise in regard to levels or dimensions or alignment of any part of the work, rectification thereof, on being required to do so, will be carried by the Contractor at his own cost, unless such errors are based on incorrect data, supplied in writing, by the Engineer or his authorised representative in which case the expenses of the rectifications shall be refunded by Government.

The checking of any setting out or checking of levels by the Engineer or his authorised representative shall not in any way relieve the Contractor of his responsibility for the correctness thereof. The Contractor shall carefully protect and preserve all bench marks site rails, pegs and other things used in setting out of works.

iii) SETTING OUT FOR (BUILDING WORKS)

The Engineer-in-charge shall furnish the contractor with only the four corners of the works site and a level bench mark and the contractor shall set out the works and shall provide an efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out. The Contractor shall provide, fix and be responsible for the maintenance of all stacks, templates, level marks, profiles and other similar things and shall take all necessary precautions to prevent their removal or disturbance and shall be responsible for the consequence of such removal or disturbance should the same take place and for their efficient and timely reinstatement. The Contractor shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and centre line marks, either existing or supplied and fixed by the Contractor. The work shall be set out to the satisfaction of the Engineer-in-charge. The approval there of or joining with the Contractor of any of his responsibilities. Before beginning the work, the Contractor shall at his own cost provide all necessary reference and level posts, pegs, gamboos, flags, ranging rod, strings and other materials for proper layout of the work in accordance with the scheme for bearing marks acceptable to the Engineer-in-charge.

The centre, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the centre to enable the theodolite to be set over it. No work shall be started until all these points are checked and approved by the Engineer-in-charge in writing but such approval shall not relieve the Contractor of any of his responsibilities.

The Contractor shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction. Pillars bearing geodetic marks located at the sites of units of works under construction should be protected and fenced by the Contractor. On completion of works, the Contractor must submit the geodetic documents according to which the work was carried out.

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RESPONSIBILITIES FOR LEVEL AND ALIGNMENT

The Contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the work and shall rectify effectually any errors or imperfections therein, such rectifications shall be carried out by the Contractor, at his own cost, when instructions are issued to that effect by the Engineer-in-charge.

10. LEVELLING INSTRUMENT

If measurements of items of the work are based on volumetric measurements calculated from levels taken before and after construction of the item, large number of leveling staves, tapes etc. will have to be kept available by the Contractor at the site of work for this purpose. Lack of such leveling staves, tapes, etc. in required numbers may cause delay in measurements and the work. The Contractor will have, therefore, to keep sufficient number of these readily available at site.

10.1 To carry out activities mentioned above 12 and 10

Contractor shall make all necessary arrangements to carry out all necessary detail surveys required as per the Specifications / Tender Conditions, during currency of work / project, and deliver desired outputs in printed / soft as instructed by engineer in charge at different stages of works as instructed by the engineer in-charge during the currency of the project, that is from start to finish of the work/project. To carry out such surveys and deliver desired outputs in printed form / soft copy as instructed by engineer in charge as mentioned above.

The Contractor shall appoint a survey agency with the approval of the engineer in charge, for that, Contractor shall submit list of three survey agencies to engineer in charge, along with the payment of his security deposit (as required under the clause one of the B-1 contract) . The engineer in charge on receipt of such list will select one survey agency out of three and communicate it, along with the work order to contractor. Contractor should appoint survey agency as selected by the engineer in charge. The survey agency shall not be changed without permission of the engineer in charge. The survey agency and / or contractor shall have

- 1) Latest survey instruments and/or equipment's viz. total station, auto levels, plotter etc.
 - 2) Auto CAD, non-auto CAD base software to deliver desired outputs based on survey carried out using (1) above, in printed/soft copy as instructed by engineer in charge.
 - 3) Necessary trained manpower to work on and deliver as (1) and (2) above.
- For appointing survey agency, to carry out such surveys and deliver desired outputs in printed/soft as instructed by engineer in charge as mentioned above the Contractor shall not be paid separately. His offer shall be inclusive of all.

11. AUTHORITIES OF THE ENGINEER-IN-CHARGE' REPRESENTATIVE:

The duties of the representative of the Engineer-in-charge are to watch and supervise the work and to test and examine any material to be used or workmanship employed in connection with the works.

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The Engineer-in-charge may from time to time, in writing delegate to his representative any powers and authorities vested in the Engineer-in-charge and shall furnish to the Contractor a copy of all such delegation of powers and authorities. Any written instructions of approval given by the representative of the Engineer-in-charge to the Contractor within the terms of such delegations (but not otherwise) shall bind the Contractor and the department as though it had been given by the Engineer-in-charge, provided always as follows.

Failure of the representative of the Engineer-in-charge to disapprove any work or materials shall not prejudice the power of the Engineer-in-charge thereafter to disapprove such work or materials and so order the putting down, removal or breaking up thereof.

12. CO-ORDINATION

When several agencies for different sub-works of the Project to work simultaneously on the Project site, there must be full co-ordination between different Contractors to ensure timely completion of the whole Project smoothly. The scheduled dates or completion specified in each contract shall therefore, be strictly adhered to. Each Contractor may make his independent arrangement for water, power, housing etc. if any so desire. On the other hand the Contractors are at liberty to mutual agreement in this behalf and make joint arrangements with the approval of the Engineer. No single Contractor shall take or cause to be taken any steps or action that may cause, disruption, discontent, or disturbance of work, labour or arrangement etc. of the other Contractor in the Project localities. Any action by any Contractor which the Engineer in his unquestioned discretion may consider as infringement of the above code, would be considered as a breach of the Contract Conditions and shall be dealt with accordingly.

In case of any dispute, disagreement between the Contractors, the Engineer's decision regarding the co-ordination, co-operation and facilities to be provided by any of the Contractors shall be final and binding on the Contractors concerned and such a decision or decisions shall not vitiate any Contract nor absolve the Contractor(s) of his/their obligations under the contract nor consider for the grant for any claim or compensation.

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13. ASSISTANCE IN PROCURING PRIORITIES, PERMITS, ETC. :

The Engineer, on a written request by the Contractor, will, if in his opinion, the request is reasonable and in the interest of work and its progress, assist the Contractor in securing, the priorities for deliveries transport permits for controlled material etc. where such are needed. The Government, will not, however, be responsible for the non-availability of such facilities or delay in this behalf and no claims on account of such failures or delays shall be allowed by the Government.

The Contractor shall have to make his own arrangement for machinery required for the work. However, such machinery conveniently available with the Department may be spared as per the rules in force on recovery of necessary Security Deposit and rent with agreement in the prescribed form Such an Agreement shall be independent of this contract and the supply of machinery shall not form a ground for any claim or extension of time limit for this work.

14. QUARRIES:

14.1 No P.W.D quarries are available with this Department. The Contractor(s) shall have to arrange himself/themselves to procure the quarry. However, necessary assistance without any extra cost to Government will be rendered by the Department for procuring the quarries if required by the Contractor.

14.2 The quarrying operations shall be carried out by the Contractor with proper equipment such as compressors, Jack-hammers, drill bits, explosives etc. and sufficient number of workmen shall be employed so as to get required out turn.

14.3 The Contractor shall carry out the works in the quarries in conformity with all the rules and regulations already laid down or that may be laid down from time to time by Government. Any cost incurred by Government due to non-compliance of any rules or regulations or due to damages by the Contractor shall be the responsibility of the Contractor.

The Engineer-in-charge or his representative shall be given full facilities by the Contractor for inspection at all times of the working of the quarry, records maintained, the stocks of the explosives and detonators, etc., so as to enable him to check that the working records and storage are all in accordance with the relevant rules.

The Engineer-in-charge or his representative shall at any times be allowed to inspect the works, buildings, and equipment at the quarters.

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14.4 The Contractor shall maintain at his own cost the books, registers etc. required to be maintained under the relevant rules and regulations and as directed by the Engineer-in-charge. These books shall be open for inspection at all times by the Engineer-in-charge or his representative and the Contractor shall furnish the copies or extracts of books or registers as and when required.

14.5 All quarrying operations shall be carried out by the Contractor in organized and expeditious manner, systematically and with proper planning. The Contractor shall engage licensed blasters and adopt electric blasting and/or any other approved method which would ensure complete safety to all the men engaged in the quarry and its surroundings. The Contractor shall himself provide suitable magazines and arrange to procure and store Explosives etc. as required under the rules at his own cost. The designs and the location of the magazine shall be got approved in advance from the Chief Inspector of Explosives and the Rules & Regulations in this connection as laid down by the Chief Inspector of Explosives from time to time shall be strictly adhered to by the Contractor. It is generally experienced that it take time to obtain the necessary licence for blasting and licence for storage of materials from the concerned authorities. The Contractor must, therefore, take timely advance action for procuring all such licences so that the work progress may not be hampered.

14.6 The approaches to the quarrying place from the existing public roads shall have to be arranged by the Contractor at his own cost, and the approaches shall be maintained by the Contractor at his own cost till the work is over.

14.7 The quarrying operations shall be carried out by the Contractor to the entire satisfaction of the Engineer-in-charge and the development of the quarry shall be made efficiently so as to avoid wastage of stones. Only such stones as are of the required quality shall be used on the work. Any stone which is in the opinion of the Engineer-in-charge, not in accordance with the specifications or of required quality will be rejected at any time, at the quarry or at the site of work. The rejected stones shall not be used on the work and such rejected materials shall be removed to the place shown at the Contractor's cost.

14.8 Since all stones quarried from Government quarry (if made available) by the Contractor including the excavated over burden are the property of the Government. No stones or earth shall be supplied by the Contractor to any other agencies or works allowed to be taken away for any other works. All such surplus quarried materials not required for work under this contract shall be the property of the Government and shall be handed over by the Contractor to Government free of cost at quarry site duly heaped at the spots indicated by the Engineer-in-charge. The rates for several items shown in the Schedule 'B' are inclusive of royalties to be paid to the Government on minor minerals and metals under relevant Acts. Full rate for any and every item shall be paid only after production of sufficient proof of having paid the royalty to Government. In absence of such proof, the item shall be paid at such reduced rates as the Engineer-in-charge may deem fit. If, however, the Government, does not require such surplus materials , the Contractor may be allowed to dispose off or use such material elsewhere with prior written permission of the Engineer-in-charge. Leaving off a quarry face or opening of new quarry face shall be done only on the approval of the Engineer-in-charge.

14.12 Quarrying permission will have to be directly obtained by the Contractor, from the Collector of the District concerned for which purpose the Department will render necessary assistance. All quarry fees, royalty charges, Octroi duties, ground rent for stacking materials etc., if any, to be paid, shall be paid directly by the Contractor as per rules in force.

14.10 The Contractor will be permitted to erect at his own risk and cost at the quarry site if suitable vacant space in Government area is available for the purpose, his own structures for stores, offices, etc. at places approved by the Engineer-in-charge. On completion of the work, the Contractor shall remove all the structures erected by him and restore the site to its original condition.

14.11 The Contractor shall not use any land in the quarry either for cultivation or for any other purpose except, that required for breaking or stacking or transporting stones.

15. COLLECTION OF MATERIALS:

- i) Where suitable and approved P.W. Department's quarries exist, the Contractor or piece worker will be allowed if otherwise there is no objection to obtain the materials to the extent required for the work from the quarry. He will be, however, liable to pay compensation, if any damage is caused to the quarry either deliberately or through negligence or for wastage of materials by himself or his staff or labour. Contractor shall pay necessary Royalty charges to the Revenue Authorities according to the Rules in force and shall submit accounts of materials extracted from the quarries as directed.

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- ii) Where no suitable P.W. Department's quarries exist or when the quantity of the material required cannot be obtained from a P.W. Department's quarry, the Contractor or piece-worker shall make his own arrangements to obtain the material from existing or a new quarry in Government waste land, private land or land belonging to other states or talukas, etc. After opening the quarry but before starting collection, the quarry shall be got approved by the Engineer-in-charge or his representatives. The Contractor or piece-worker shall pay all royalty charges, compensation etc. No claims or responsibility on account of any of obstructions caused to execution of the work by difficulties arising out of private owners of land, will be entertained.
- iii) The rates in the tender include all incidental charges such as opening of a new quarry, opening out a new portion in an existing quarry, removing top soil and the unsuitable material, dewatering a quarry, cost of blasting powder and fuse, lift, lead, repairs to existing cart tracks, making new cart tracks, control charges, Central/State Government or Municipal Taxes, Local Boards, Cess, etc.
- iv) The rates in the tender are for the delivery of the approved material on road side properly stacked at the places specified by the Engineer-in-charge and are inclusive of conveyance charges in respect of the leads and lifts. No claims on account of charges in lead will be entertained.
- v) No material shall be removed from the land within the road boundary or from the land touching it without the written permission of the Engineer-in-charge or his authorised agent. If any materials is unauthorisely obtained from such places the Contractor or piece worker shall have to make good the damages and pay such compensation, in addition as may be decided by the Executive Engineer and will have to stop further collection.
- vi) Any material that falls on any P.W.D. Road from the cart etc. during conveyance shall be immediately picked up and removed by the Contractor or piece worker, failing which it will be got removed departmentally at his cost. No heap shall be left prior to stacking even temporarily on the road surface or in any way so as to cause any obstruction or danger to the traffic. The Contractor or the piece worker shall be liable to pay for any claims of compensation etc. arising out of any accident, etc. Any such materials causing obstruction or danger etc. will be got removed departmentally at his cost and no claims for any loss or damage to the material, thus removed, will be entertained. The Contractor shall also be responsible for the damage or accident etc. arising out of any material that falls on the road or track , not in charge of the Department and shall attend to any complain which be received.

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- vii)** The materials shall not be stacked in place where it is liable to be damaged or lost due to traffic passing over it, to be washed away by rain or floods, to be buried under the landslides etc. or slip down an embankment or hill side etc. No claims for any loss due to these and similar causes will be entertained.
- viii)** Before stacking, the materials shall be free from all earth, rubbish vegetable matter and other extraneous substance and in the case of metal, screened to gauge, if so directed when ready. It shall be stacked entirely clear of the road way, on ground which has been cleaned of vegetation and leveled. On high banks, ghat roads etc. where it may not be practicable to stack it entirely clear of the roadway, it may be stacked with the permission of the Engineer-in-charge on terms in such a way as to cause minimum danger and obstruction to the traffic or as may be directed by him.
- ix)** The size of the stacks for materials other than rubble shall be 1 m. x 1m. x 0.5 m. or such other size as may be directed by the Engineer-in-charge and all but one stack in 200 M. shall be of the same uniform size and shall be uniformly distributed over whole lengths. One stack (at the end) in each 200 M. may be of length different from the rest in order to adjust total quantity to be required but its width and height will be the same as those of the rest.
- x)** The Sub Divisional Officer shall supply the Contractor with statement showing 200 M. wise quantities that will be required and the order in which the collection is to be done. No materials in excess of requirements in that 200 M. shall be stacked. Any excess quantity shall be removed at the expenses of the Contractor or piece worker to where it is required before the material in that 200 M. is finally measured.
- xi)** In stacking materials, the deposition shall commence at the end of the Km. farthest from the quarry and be carried continuously to the other end (unless otherwise directed by the Executive Engineer). Stacking in one 200 M. shall be completed before it is started in another, unless directed otherwise, in writing by the Executive Engineer. Measurements of the material stacked in a 200 M. will not be recorded until the full quantity required has been stacked unless otherwise authorised by Engineer in writing. Collecting and spreading shall not be carried out at the same time in one and the same Km. or in two adjoining Km. except with the written permission of the Executive Engineer.

xii) Unless otherwise directed, the materials shall be collected in the following order according to availability of space: (1) Rubble (if included in tender), (2) Metal, (3) Soft murum and (4) hard murum. Hard murum shall be stacked on the side opposite to that on which soft murum has been stacked. Similarly, metal collected for petty repairs shall be stacked on the side opposite of metal for new layer. Where metal for two layers has to be stacked, as in the case of new roads, the metal for each layer shall be stacked on the opposite sides of the road.

xiii) All road material shall be examined and measured before it is spread. The labour for measurements (and check measurements wherever carried out) shall be supplied by the Contractor or piece worker. Immediately after the measurements are recorded the stacks shall be marked by the Contractor or piece worker by white wash or otherwise as may be directed by the Executive engineer to prevent from any possibility of the same material being measured and recorded over & again and to prevent any unauthorized tampering with the stacks.

If the Contractor or the piece worker fails to attend the measurements of material after receiving the notice from the Sub-Divisional Officer or his subordinate stating date and time of the intention to measure the work, the same shall be measured nevertheless and no complaint in this respect will be entertained later on. If the Contractor or piece worker fails to supply sufficient labour for the materials required at the time of measurements or check measurements, after due notice has been given to him, the expenses incurred on account of employing departmental labour or material etc. shall be charged against his account.

xiv) No deduction will be made for voids.

xv) The responsibility of assuring the quality of work shall be on the contractor who shall take actions as stipulated in standard specification as per "Schedule C"

xvi) It shall be responsibility of the contractor to achieve quality of work as stipulated in section 1200 of MORTH Specification for Road and Bridge Work (2001)

16. TEMPORARY QUARTER AND SITE OFFICE:

i) The contractor shall at his own expense maintain sufficient experienced supervisory staff etc. required for the work and shall make his own arrangement, provide housing for them with all necessary arrangements, including fire preventive measures etc. as directed by the Engineer-in-charge. General layout plan for such structures shall be got approved from the Engineer-in-charge. It will be the responsibility of the Contractor to get his layout plan of temporary structure approved from the local competent authority.

ii) The Contractor shall provide, furnish, maintain and remove on completion of the work, a suitable office on the work site for the use of Executive Engineer's representative. The covered area exclusive of verandah should not be less than 40 Sq.m. it may have bamboo matting walls or brick walls, asbestos or corrugated iron roof, paved floor should be 45 cm. above ground level. He should provide a basket type or suitable latrine, urinals and keep them clean daily. This will be supposed to be included in his rate.

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17. TREASURE-TROVE:

In the event of discovery by the Contractor or his employees, during the progress of the work of any treasure, fossils, minerals or any other articles of value or interest, the Contractor shall give immediate intimation thereof to the Engineer and forthwith hand over to the Engineer such treasure or things which shall be the property of Government.

18. PATENED DEVICE. MATERIALS AND PROCESSES:

Whenever the Contractor desires to use any designed devices, materials or process covered by the letter of patent or copy right , the right for such use shall be secured by suitable legal arrangement and agreement with patent owner and the copy of their agreement shall be filed with the Engineer-in-charge if so desired by the letter.

18.1. Labour Licence: It shall be obligatory on the part of the contractor to obtained the necessary labour Licence from the labour Department within fortnight of issue of work order.

19. EXPLOSIVES:

The Contractor shall at his own expense construct and maintain proper magazines. If such are required for the storage of explosives for use in connection with the work and such magazine being situated, constructed and maintained in accordance with the Government Rules applicable in that behalf. The Contractor shall at his own expenses obtain such licence or licences as may be necessary for storing the using explosives. Notwithstanding that the location etc. or storage of explosives are approved by the Engineer, the Government, shall not be incurring any responsibility whatever in connection, therewith, all operations in or for which explosives are employed being at the risk of the Contractor and upon his sole responsibility and the Contractor hereby gives to Government an absolute indemnity in respect thereof.

20. DAMAGE BY FLOODS OR ACCIDENT:

The Contractor shall take all precautions against damage by floods or like or from accident etc. No compensation will be allowed to the Contractor on this account or for correcting and repairing any such damage to the work during construction. The Contractor shall be liable to make good at his cost any plant or materials belonging to the Government lost or damaged by floods or from any other cause which is in his charge.

21. POLICE PROTECTION:

For the Special Protection of camp and of the Contractor's work, the Department will help the Contractor as far as possible to arrange for such protection with the concerned authorities, if so required by the Contractor in writing. The full cost of such protection shall be borne by the Contractor.

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22. TRAFFIC REGULATION FOR ROAD WORKS:

TRAFFIC REGULATION / Arrangement for traffic during construction: -

Action for arrangement for traffic during construction will be taken by the Contractor as envisaged in the contract documents and spelt out in clause 112 of MORTH Specification for Road and Bridge Work (2001)

22.1 Unless separately provided for in the contract, the Contractor shall have to make all necessary arrangements for regulating traffic, day and night during the period of construction to the entire satisfaction of the Engineer. This includes the construction and maintenance of diversions, if necessary. The Contractor shall have to provide necessary caution boards, barricades, flags, lights and watchmen etc. so as to comply with the latest Motor Vehicle Rules and Regulations and for traffic safety and he shall be responsible for all claims from accidents which may arise due to his negligence whether in regulating the traffic or in stacking materials on the roads, or due to any other reasons.

22.2 The Contractor shall at all times carry out the work on the road in a manner creating least interference to the flow of traffic, while consistent with the satisfactory execution of the same. For all works involving improvements to the existing road, the Contractor shall, in accordance with the directives of the Engineer-in-charge, provide and maintain, during the execution of work a passage for traffic, either along or part of the existing carriageway under improvement or along a temporary diversion constructed close to the road.

22.3 TRAFFIC REGULATIONS FOR BRIDGES AND C.D. WORKS:

It is to be clearly understood that whatever work carried out by the Contractor for construction of diversion road including earthwork, W.B.M. bituminous surface dressing, R.C.C. pipe drains etc will be paid for only once if the items of temporary

diversion are included in the contract and if due to flow of traffic, due to floods or due to any other causes, this diversion road and/or the R.C.C. drain gets damaged it shall be repaired and maintained by the Contractor in good conditions till completion of the whole work at his own expenses.

Traffic safety and control shall be as per Clause No. 112.4 of M.O.S.T. Specifications for Roads and Bridges (4th Revision, August 2001 Edition).

23. SUPERVISION AND INSPECTION OF WORKS AND QUALITY CONTROL:

23.1 SUPERVISION:

The Contractor shall either himself supervise the execution of works or shall appoint the competent agent approved by the Engineer-in-charge, to act on his behalf. If in the opinion of the Engineer-in-charge, the Contractor has himself no sufficient knowledge and experience of receiving instructions or cannot give his full attention to the works, the Contractor shall at his own expenses, employ as his accredited agent a qualified Engineer approved by the Engineer-in-charge.

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Order given to the Contractor's agent shall be considered to have the force as if these had been given to the Contractor himself. If the Contractor fails to appoint a suitable agent as directed by the Engineer-in-charge, the Engineer-in-charge shall have full power to suspend the execution of the work until such date a suitable agent is appointed and the Contractor shall be responsible for the delay so caused to the works and the Contractor shall not be entitled for any compensation on this behalf.

23.2 INSPECTION:

The Contractor shall inform the Engineer-in-charge in writing when any portion of the work is ready for inspection giving him sufficient notice to enable him to inspect the same without affecting the further progress of the work. The work shall not be considered to have been completed in accordance with the terms of the contract until the Engineer-in-charge shall have certified in writing to that effect. Approval of materials or workmanship or approval of part of the work during the progress of execution shall not bind the Engineer-in-charge or in any way affect him even to reject the work which alleged to be completed and to suspend the issue of his certificate of completion until such alteration and modifications or reconstruction have been effected at the cost of the Contractor as shall enable him to certify that the work has been completed to his satisfaction.

The Contractor shall provide at his cost necessary ladders and such arrangements as to provide necessary facilities and assistance for proper inspection of all parts of the work at his own cost.

24. INITIAL MEASUREMENTS FOR RECORD:

Where, for proper measurement of the work, it is necessary to have an initial set of levels or other measurements taken, the same as recorded in the authorized field book or measurement book of Government by the Engineer or his authorised representative will be signed by the Contractor who will be entitled to have a true copy of the same made at his cost. Any failure on the part of the Contractor to get such levels etc. recorded before starting the work will render him liable to accept the decision of the Engineer as to the basis of taking measurements. Like-wise the Contractor will not cover any work which will render its subsequent measurements difficult or impossible without first getting the same jointly measured by himself and the authorised representative of the Executive Engineer. The record of such measurements on the Government side will be signed by the Contractor and he will be entitled to have a true copy of the same made at his cost.

25. SAMPLES AND TESTING OF MATERIALS:

i) All materials to be used on work shall be got approved in advance from the Engineer-in-charge and shall pass the test and/or analysis required by him which will be:

- a) as specified in the specification for the items concerned and/or
- b) Red Book.
- c) As specified by the Indian Roads Congress Standard Specification and cost of practice for Roads and Bridges 4th Revision, Section 1200.

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- d) I.S.I. specifications (whichever and wherever applicable) or
- e) Quality Control for road work.
- f) such recognized specifications accepted to Engineer-in-charge as equivalent thereto or in absence of such authorised specification.
- g) such requirement test and/or analysis as may be specified by the Engineer-in-charge in order of precedence given above.
- ii) The Contractor shall at his risk and cost make all arrangements and/or shall provide for all such facilities as the Engineer-in-charge may require for collecting, preparing required number of samples for tests or for analysis at such time and to such place or places as may be directed by the Engineer and bear all such charges and cost of testing. Testing charges shall be reimbursed subject to conditions under this Clause 25 (viii) 'a' to 'g'. Such samples shall also be deposited with the Engineer-in-charge.
- iii) The Contractor shall if and when required, submit at his cost the samples of materials to be tested or analysed and if, so directed, shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and the materials, finally accepted by the Engineer-in-charge.
- iv) The Contractor shall not be eligible for any claim or compensation either arising out the any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of the materials.
- v) The Contractor or his authorised representative will be allowed to remain present in the department laboratory while testing samples furnished by him. However, the results of all the tests carried out in the departmental laboratory in the presence or absence of the Contractor or his authorised representative, will be binding on the Contractor.
- vi) (a) **70% tests** shall have to be carried out in his **field laboratory** and **30% in Quality Control Laboratory**. In respect of other construction material which is not mentioned in the following table, **50%** tests shall be carried out in the Contractors field laboratory and **50% tests** in the nearest quality control laboratory of the Department. In case where there is no field laboratory, 100% tests shall be carried out in the nearest Quality Control Laboratory of the Department.
- (b) The tests which cannot be carried out both in field laboratory and Vigilance & Quality Control Circle's laboratories, shall be carried out 100% in the laboratories of Government Engineering College / Government Polytechnic at the entire cost of Contractor.
- vii) in case of materials supplied by the Government, if the Contractor demands certain testing, the charges thereof shall be paid by the Contractor if the testing results are satisfactory and by the Department if the same are not satisfactory.
- viii) a) The test shall be carried out in accordance with the Clause "Samples & Testing of materials" given under "**Additional General Conditions & Specifications**" of this tender document.

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b) The testing of materials shall be carried out as per the frequency specified by the Superintending Engineer, Vigilance & Quality Control Circle, Pune and shall be the responsibility of Contractor.

c) The material required for testing shall be sent by the contractor to the specified laboratory at his own risk and cost.

d) In case the desired results are not obtained during testing or the material is rejected due to unsatisfactory results, the testing charges shall not be paid to the contractor.

e) It shall be obligatory on contractor to produce the test results along with receipt of payment made to the Laboratory, for releasing payment towards Testing Charges.

f) In case additional testing of material is found necessary due to change in source, no separate payment shall be made and it shall be the entire responsibility of contractor.

g) The Contractor will exercise proper supervision on the quality and workmanship of the work executed and will carry out the requisite quality control tests for testing of materials, mixes, workmanship and final product and will ensure strict compliance with the quality requirements and Specifications prescribed in this Section.

The Contractor shall maintain complete record of quality control tests in the prescribed formats as directed by the Engineer. The test results and records shall be made available to the Engineer whenever required.

h) Material Testing shall be carried out as directed by the Engineer-in-charge.

i) **Establishment of field lab :**

As Per Minutes of Meeting issued by Public Works Department, Mantralay, Mumbai vide Letter No. Meeting-2020/Pra.kra.100/Ra.Ma.2, Dated.10/11/2020, for the works costing more than 1.00 Cr. (Estimated cost put to tender i.e. Work portion + Testing + Royalty Charges) it is mandatory to install the Field Laboratory at site of work.

The Contractor shall establish the field lab with all the necessary equipment within 15 days from issue of work order and submit dated geo tag photographs of the lab. Failing which a fine of Rs.1000/- per day will be imposed till the lab is established. No running account or final bill will be paid to the contractor unless the Executive Engineer has confirmed the establishment of field lab.

25.1 FREQUENCY CHART FOR TESTING OF MATERIALS

ANNEXURE- 'A'

Sr.No	Material	Test	Frequency of Testing	Remarks
1.	Sand	i) Fineness Modulus ii) Silt Content	At the beginning and if there is change in source.	
2.	Metal	i) Crushing value ii) Impact value iii) Abrasion value iv) Water Absorption v) Flakiness Index vi) Stripping value vii) Gradation	One test per 200 Cu.M. or part thereof.	PWD Hand Book I.S. 2386 Part-II
3.	Cement Concrete	i) Compressive Strength	Upto 5 Cu.M.– 1 set 6-15 Cu.M. – 2 sets 16-30 - 3 sets 31-50 - 4 sets 51 & above - 4 sets + One additional set for each additional 50 Cu.M. or part thereof.	M.O.S.T. Specification 1716.
4.	Cement	i) Comp. Strength ii) Initial setting time iii) Final setting time iv) Specific Gravity v) Soundness vi) Fineness	One test for each consignment of 50 M.T. (1000 bags) or part thereof. But minimum one test for each consignment.	I.S. 2612 122612

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5.	Water Bound Macadam	i) ii) iii) iv) v)	Aggregate Impact value Gradation Flakiness index & Elongation Index Atterberg limits of binding material Atterberg limits of portion of aggregates passing 425 Micron.	1 test per 200 Cum. 1 test per 100 Cum. 1 test per 200 Cum. One test per 25 M ³ of binding material One test per 100 Cum.	M.O.S.T. Specification Table 1200-3.
6.	Steel	i) ii) iii) iv)	Weight per meter. Ultimate tensile stress Yield stress Elongation	One test for each consignment	
7.	Prime coat / tack coat / Fog spray	i) ii) iii)	Quality of Binder Binder Temperature Rate of spread of binder	No. of samples per lot and tests as per IS-73, IS-217 and IS-8887 as applicable. At regular close intervals. One test per 1000 M ² and not less than two tests per day.	M.O.S.T. Specification Table 1200-4.
8.	Seal Coat / Surface Dressing	i)	Quality of Binder	Same as mentioned under Sr.No.6	M.O.S.T. Specification Table 1200-4.

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12	Open graded premix surfacing / Close graded premix surfacing	i) Quality of Binder ii) Impact value / Los Angles Abrasion value iii) Flakiness & Elongation Index iv) Stripping value of aggr. (Immersion tray test) v) Water Absorption vi) Water Sensitivity of mix vii) Gradation viii) Soundness ix) Temp. of binder x) Binder Content xi) Rate of spread of mixed materials. xii) Percentage of fractural faces.	Same as mentioned under Sr.No.6. 1 test per 50 Cum. 1 test per 50 Cum. Initially 1 set of 3 representative samples for each source of supply. Subsequently by change in the quality of aggregates. 1 test per 25 Cu.M. Initially one determination by each method for each source of supply, then as warranted by change in the quality of aggregate. At regular close intervals. 1 test per 1000 M ³ and not less than 2 tests per day. Regular control through checks of layer thickness. When gravel is used one test per 50 Cum.	M.O.S.T. Specification Table 1200-46.
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10.	Thermoplastic Paint	i) Glass bead contents and grading analysis. ii) Reflectance and Yellowness index iii) Flowability iv) Softening Point v) Drying Time.	One Test for 3 Km. Work. One Test for 3 Km. Work. One Test for 3 Km. Work. One Test for 3 Km. Work. One Test for 3 Km. Work.	
11.	Granular Sub-base	i) Gradation ii) Aterberg limits iii) Moisture content prior to compaction iv) Density of compacted layer v) C.B.R.	One test per 200 Cum. One test per 200 M ³ One test per 250 M ³ As required.	M.O.S.T. Specificati on Table 1200-3.
12.	Bituminous Macadam & Semi-dence Bituminous Concrete.	i) Quality of binder ii) Impact / Abrasion value iii) Flakiness / Elongation Index iv) Stripping value v) Water sensitivity of Mix vi) Water Absorption vii) Soundness viii) % of fractural faces ix) Gradation	Same as per Sr.No. 7 Same as per Sr.No. 12 Same as per Sr.No. 12 Same as per Sr.No. 12 Same as per Sr.No. 12 Same as per Sr.No. 12 Same as per Sr.No. 12 Same as per Sr.No. 0 2 tests per day per plant both on individual constituents & mixed aggregates from dryer	M.O.S.T. Specificati on Table 1200-4.
		x) Binder content & aggr. Grading xi) Control of Temp of binder & aggregates for mixing & of the mix at the time of laying & rolling. xii) Rate of spread of mixed material xiii) Density of compacted layer.	Periodic subject to minimumof 2 tests per day per plant. At regular close intervals. Regular control through checks of layer thickness. One test per 250 Sq.M.	
13.	Interlocking Concrete Paving Block	i) Compressive Strength ii) Water absorption iii) Flexural Test iv) Resistance to wear	A set of 8 blocks for every 647000 blocks. -----do----- -----do-----	

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ADDITIONAL CONDITION FOR MATERIAL TESTING

15.1.2 It is mandatory on the part of Contractor to carry out all the required tests of various construction materials as mentioned in Schedule-'B' of the Tender.

If the contractor fails to submit required Test Results of the various construction materials as mentioned in the items of Schedule-'B', he will be liable to deposit the amount at penal rate of five times of the amount of particular test which he has not carried out. Contractor will be informed by the Engineer-in-charge by letter. On receipt of letter, contractor will have to either deposit the said amount or to carry out the required test within 10 days. If he again failed to carry out the required tests in stipulated time limit, the said tests will be carried out by the department and total expenditure incurred on the testing charges plus five times amount of testing charges will be recovered from the Contractor's bill.

As this recovery is only due to the negligence on the part of contractor to carry out work as per Tender Conditions and Executive Engineer's decision will be final and binding on the Contractor and it cannot be challenged by the Contractor by way of Appeal, Arbitration or in the Court of Law.

15.1.3 The responsibility of assuring the quality of work shall be on the contractor who shall take actions as stipulated in standard specification as per "Schedule C"

15.1.4 It shall be responsibility of the contractor to achieve quality of work as stipulated in section 1200 of MORTH Specification for Road and Bridge Work (2001)

27. CEMENT CONCRETE:

27.1 GENERAL

a) All concrete shall be controlled concrete and machine mixed, unless otherwise directed by Engineer-in-charge. For controlled or high-grade concrete, the grading of aggregates shall be got approved from the Engineer.

b) The correct proportions and the total amount of water for the mix will be determined by means of preliminary tests and shall be got approved by the Engineer. However, such approval does not relieve the Contractor from his responsibility regarding the minimum works strength requirements. Work test shall be taken in accordance with relevant codes and specifications.

All proportioning of aggregates shall be done by weight if so ordered by the Engineer.

c) (i) All concrete mixing shall compulsorily be done by Batch Type Concrete Mixer with diesel or electric operated with minimum size of 200 litres automatic water measuring system and integral weigher Hydraulic / Pneumatic type. The Engineer may at his discretion, allow in writing hand mixing of concrete for minor items where small quantities are involved but in that case the Contractor shall increase the cement content of the mixture by 10% without any extra cost.

(ii) Conventional type mechanical mixer if found necessary for particular item, may be used with permission of Engineer-in-charge.

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d) The form work used shall be made preferably of steel, marine plywood or with lining of steel. Wooden shutters may be allowed at the discretion of the Engineer e.g. lintels, small slabs and beams, coping, etc.

e) The concrete shall be mechanically vibrated for proper compaction by the method approved by the Engineer.

f) The concrete shall be cured only by sweet potable water for full 21 days after the time or the period specified in the detailed specification or as may be directed by Engineer-in-charge. Code.

g) Minimum cement content of concrete shall be as per prevailing I.S.

REINFORCED CONCRETE WORK

The work included in this contract shall be carried out in addition to this specification detailed herein, in accordance with specifications and regulations as laid down in the following standard specifications.

IS 8112 - 112812 - Specification for 43 grade ordinary Portland cement. IS

122612 - 112812 - Specification for 53 grade ordinary Portland cement.

IS 1786 - 11285 - Specification for cold twisted bars.

IS 383 - - Specification for coarse and fine aggregate from natural Courses for concrete.

IS 432 - - Specification for mild steel and medium steel bars.
11282

IS 456 - 2000 - Code of practice for plain and reinforced concrete.

* For TMT (Fe-415 / Fe 1000) reinforcement bars, prevailing I.S. code shall be followed.

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27.2 FORM WORK AND STAGING FOR BRIDGE STRUCTURES :

27.2.1 For bridge structure, forms for concrete shall be constructed of mild plates or marine plywood and be of substantial and rigid construction true to shape and dimensions shown the drawings. Where metal forms are used all bolts and rivets shall be counter sunk and well ground to provide a smooth plain surface.

27.2.2 Forms shall be mortar tight and shall be sufficiently rigid by the use of ties and bracings to prevent any displacement or sagging between supports. They shall be strong enough to withstand all pressure, ramming and vibration, without deflection from the prescribed lines occurring during and after placing the concrete and shall be tight enough to prevent any appreciable loss of concrete during vibration.

Screw, jacks or had wood wedges where required shall be provided to make up any settlement in the form work before or during the placing of concrete.

27.2.3 Schedule camber shall be provided in horizontal numbers of structures, specially in long spans to counteract the effects of any deflection. The form work shall be so fixed as to provide for such camber.

27.2.4 Forms shall be so constructed as to be removal in sections in the desired sequence, without damaging the surface of concrete or disturbing other sections.

If the standard specifications quoted above fall short for the items quoted in these Schedules of this contract reference shall be made to the latest British Standard of Specification, if any of the items of contract do not fall in reference quoted above, the decision and specifications of the Engineer shall be final.

27.2.5 NUMBER OF SETS OF STAGING AND SHUTTERING AND EQUIPMENT : (For Bridge works only)

In order to ensure completion of bridge within the stipulated period, the Contractor shall have to arrange a minimum number of sets of staging and shuttering as well as equipment of the required size for different components as stipulated hereunder:

i)	For Well Foundations	a) Staging and shuttering	sets.
		b) Equipment's	sets.
ii)	For other items of substructures	a) Staging and shuttering	sets
		b) Equipment's	sets.
iii)	For superstructures	a) Staging and shuttering	sets.
		b) Equipment's	sets.

Use of slip form shuttering wherever feasible will be preferred.

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27.2.6 Special Condition for B.T. work :

In respect of Black Top Work, 15% (Fifteen Percent) payment of Black Top in a particular Km. shall be retained till completion of side berms / C.D. Works, 5th Km. stone, Km.stone, 200meter stone etc. in that km. After completion of other items satisfactorily, the withheld payment will be released finally.

27.2.7 For Grade –I /Grade-II / Grade –III / WBM and for BUSG work metal shall be supplied at site only after screening it on “mechanical vibratory screening unit”. The special “mechanical vibratory screening unit” arrangement shall consist of main input hopper to receive raw metal, conveyor belt to transport it to the “mechanical vibratory screening unit”. The “mechanical vibratory screening unit” shall have required number of trays, sieves/decks as directed by the Engineering in charge. The output of “mechanical vibratory screening unit” shall be conveyed to “storage Unit” where metal of different sizes, shall be stored separately. Metal so supplied shall undergo all the tests as per the specifications. As a input to the main input hopper, contractor may use hand broken metal or output of primary crusher / cone crusher of size or equivalent to not less than 24“x18” The metal so supplied from the “mechanical Vibratory screening unit” at site shall not exempt the contractor from carrying out tests as specified in the specifications.

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28. MISCELLANEOUS:

28.1 The rates quoted by the contractor shall be deemed to be inclusive of all taxes other than Goods and Service Tax 2017 that the contractor will have to pay for performance of this contract. The rates quoted by the contractor shall be exclusive of Goods and Service Tax 2017 which shall be paid extra by the employer at prevailing rates. The employer will perform such duties in regard to the deduction of such taxes at sources as per applicable law.

28.2 For providing electric wiring or water lines etc. recesses shall be provided, if necessary, through walls, slabs, beams, etc. and later on refilled up with bricks or stone chipping, cement mortar without any extra cost.

28.3 In case it becomes necessary for the due fulfillment and performance of the contract for the Contractor to occupy land outside the Department limits, the Contractor will have to make his own arrangements with the land owners and to pay such rents if they are payable as mutually agreed between them. The Department will afford the Contractor all the reasonable assistance to enable him to obtain Government land for such purpose on usual terms and conditions as per rules of Government, if such land is available.

28.4 The special provision in detailed specifications or wording of any items shall gain precedence over corresponding contradictory provision (if any) in the standard specifications or G.C.E. Karad Hand Book, where reference to such specifications is given without reproducing the details in Contract.

28.5 Suitable separating barricades and enclosures shall be provided to separate material brought by Contractor and material issued by Government to Contractor under Schedule 'A'. Same applies for the material obtained from different sources of supply.

28.6 The stacking and storage of construction material at site shall be in such a manner as to prevent deterioration or infusion of foreign matter and to ensure the preservation of their quality, properties and fitness for the work. Suitable precautions shall be taken by the Contractor to protect material against atmospheric actions, fire and other hazards. The materials likely to be carried away by wind shall be stored in suitable stores or with suitable barricades and where there is likelihood of subsistence of soil, such heavy materials shall be stored on approved platforms.

28.7 For road and bridge works, the Contractor shall in addition to the specifications cited here, comply with requirements of relevant I.R.C. Code practice.

28.8 The Contractor shall be responsible for making good the damages done to the existing property during construction by his men.

28.12 If it is found necessary from safety point of view to test any part of the structure, the test shall be carried out the Contractor with the help of the Department at his own cost.

28.10 Defective work is liable to be rejected at any stage. The Contractor, on no account can refuse to rectify the defects merely on reasons that further work has been carried out. No extra payment shall be made for rectification.

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28.11 In the Schedule 'B' the work has been divided into sections but notwithstanding this, every part of it shall be deemed supplementary to and complementary of every other part.

28.12 General directions or detailed description of work, materials and items coverage of rates given in the specifications are not necessarily repeated in the Bill of Quantities. Reference is, however, drawn to the appropriate section clause(s) of the General specifications in accordance with which the work is to be carried out.

28.13 In absence of specific directions to the contrary, the rates and prices inserted in the items are to be considered as the full inclusive rates and prices for the finished work described thereunder and are to cover all labour, materials, wastage, temporary work, plant overhead charges and profits, as well as the general liabilities, obligations and risks arising out of the General Conditions of the Contract.

28.14 The quantities set down against the item in Schedule 'B' are only estimated quantities of each kind of work included in the contract and are not to be taken as guarantee that the quantities scheduled will be carried out or required or that they will not be exceeded.

28.15 All measurements will be made in accordance with the methods indicated in the specifications and read in conjunction with the General Conditions of the Contract.

28.16 The details shown on drawings and all other information pertaining to the work shall be treated as indicative and provisional only and are liable to variation as found necessary while preparing working drawing which will be supplied by the Government during execution. The Contractor shall not, on account of such variation be entitled to any increase over the ones quoted in the tender which are on quantity basis.

28.17 The recoveries if any due from Contractor will be affected as arrears of land revenue through the Collector of the District.

28.18 Clause 101 to 107 of specifications of Road and Bridges work adhered herewith will be applicable to works as per Schedule 'B' unless specified otherwise in the detailed specifications of the relevant items.

28.112 All materials used in the construction shall conform to the requirement of Specification Clause under Section 1000 "Materials for Structures" of Specification of Road and Bridge Work, M.O.S.T., New Delhi, August 2001 Edition.

28.20 Extraneous materials and steps to minimize dust nuisance during construction shall be as per Clause 111 of M.O.S.T. specification, New Delhi, August 2001 Edition.

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PROTECTION OF UNDERGROUND TELEPHONE CABLE AND AERIAL TELEPHONE WIRES AND POLES, TRANSMISSION TOWERS, ELECTRICITY CABLES AND WATER SUPPLY LINES:

During the execution of work it is likely that the Contractor may meet with telephone cable, electrical cables, water supply lines, etc. it will, therefore, be the responsibility of the Contractor to protect them carefully. All such cases should be brought to the notice of the Engineer-in-charge by the Contractor and also to the concerned Department. Any damages whatsoever done to these cables and pipelines by the Contractor shall be made good by him at his cost.

29. MEDICAL AND SANITARY ARRANGEMENTS TO BE PROVIDED FOR LABOUR EMPLOYED IN THE CONSTRUCTION BY THE CONTRACTOR:

a) The Contractor shall provide an adequate supply of potable water for the use of laborers on work and in Camps.

b) The Contractor shall construct trench or semi-permanent latrines for the use of the Laborers. Separate latrines shall be provided for men and women.

c) The Contractor shall build sufficient number of huts on a suitable plot of land for use of the Laborers according to the following specifications. Huts of Bamboos and Grass may be constructed.

1. Huts of Bamboos and Grass may be constructed.
2. A good site not liable to submergence shall be selected on high ground remote from jungle but well provided with trees, shall be chosen where it is available. The neighborhood of tank, jungle, grass or wood would should be particularly avoided. Campus should not be established close to large cutting of earth work.
3. The lines of huts shall have open spaces of at least ten yards between rows. When a good natural site cannot be procured, particular attention should be given to the drainage.
4. There should be no overcrowding. Floor space at the rate of 3 Sq.M.per head shall be provided. Care should be taken to see that the huts are kept clean and good order.
5. The Contractor must find his own land and if he wants Government land, he should apply for it. Assessment for it if demanded will be payable by Contractor. However the Department does not bind itself for making available the required land.
6. The Contractor shall construct a sufficient number of bathing places. Washing places should also be provided for the purpose of washing clothes.
7. The Contractor shall make sufficient arrangements for draining away the surface and sewage water as well as water from the bathing and washing places and shall dispose off this waste water in such way as not to cause any nuisance. He shall also keep the premises clean by employing sufficient number of sweepers.

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d) The Contractor shall engage a Medical Officer with a traveling dispensary for a Camp containing 1000 or more persons if there is no Government or other private dispensary situated within 8 Kms. from the camp. In case of emergency the Contractor shall arrange at his cost for transport for quick medical help to his sick workers.

e) The Contractor shall provide the necessary staff for effecting a satisfactory drainage system and cleanliness of the camp to the satisfaction of the engineer. At least one sweeper per 200 persons should be engaged.

f) The Assistant Director of Public Health shall be consulted before opening a labour camp and his instruction on matters such as water supply,

sanitary conveniences, the camp site accommodation and food supply shall be followed by the Contractor.

g) The Contractor shall make arrangements for all antimalaria measures to be provided for the labours employed on the work. The antimalaria measures should be provided as directed by the Assistant Director of Public Health.

h) In addition to above all provisions of the relevant labour act pertaining to basic amenities to be provided to the laborer shall be applicable which will be arranged by the contractor.

30. SAFETY CODE:

While executing the work, necessary precautions regarding safety of labour, supervisory staff, public and traffic users shall be taken by the agency according to rules and regulations specified by the Government of India / Government of Maharashtra and as directed by District Court, Pune.

Suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period works as can be done safely from ladders. When ladder is used an extra mazdoor shall be engaged for hold the ladder and if the ladder is used for carrying materials as well, suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1 to 4 (1 horizontal and 4 vertical).

Scaffolding or staging more than 3.25 m. above the ground or floors, swing or suspended from an overhead support or erected with stationary support, shall have a guard rail properly attached, bolted, braced and otherwise assured at least 1 m. high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

Working platform, gangways and stairways shall be so constructed that they do not sag unduly or is more than 3.25 m. above ground level or floor level, it shall be closely boarded , have adequate width and be suitably fenced as described in 2 above.

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Every opening in floor of the building or in a working platform shall be provide with suitable protection to prevent fall of persons or materials by providing suitable fencing or railing with minimum height of 1 meter. Safe means of access shall be provided to all working platform and other working places. Every ladder shall be securely fixed.

No portable single ladder shall be over 12 m. in length , width between side rails in a rung ladder shall in no case be less than 30 cm. for ladders upto and including 3 m. in length. For longer ladders with width shall be increased at least 6 mm. for each additional 30 cm. of length. Uniform step spacing shall not exceed 30 cm.

Adequate precautions shall be taken to prevent danger from electrical equipment's. No materials on any of the site shall be stacked or placed as to cause danger or inconvenience to any person or the public. The Contractor shall provide all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precaution and to pay any damages and costs which may be awarded in any such suit, action or proceeding to any such person or which may with the consent of the Contractor, to be paid to compromise any claim by any such person.

EXCAVATION AND TRENCHING :

All trenches, 1.5 meter or more in depth , shall at all times be supplied with atleast 1 ladder for each 30 metre in length or fraction thereof. Ladder shall be extended from bottom of trench to atleast 1 metre above surface of the ground, sides of trench which is 1.5 M. or more in depth shall be stepped back to give suitable slope, or security held by timber bracing, so as to avoid the danger of sides collapsing. Excavated materials shall not be placed with 1.3 M. of edge of trench or half of depth of trench whichever is more. Cutting shall be done from top to bottom under no circumstances shall undermining or undercutting be done.

DEMOLITION :

Before any demolition work is commenced and also during the process of the work :-

- a)** All roads and open areas adjacent to the work site shall eight be closed or suitably protected.
- b)** No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by operator shall remain electrically charged.
- c)** All practical steps, shall be taken to prevent danger to person employed, from risk or fire or explosion or hooding. No floor, roof or other part of building shall be so overloaded with debris of materials as to render it unsafe.

All necessary personal safety equipment's as considered adequate by the Engineer-in-charge shall be available for use of persons employed on the site and maintained in condition suitable for immediate use and the Contractor shall take adequate step to ensure proper use of equipment by those concerned.

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a) Workers employed on mixing asphaltic materials, cement and lime mortars concrete shall be provided with protective footwear and protective goggles.

b) Those engaged in handling any materials, which is injurious to eyes shall be provided with protective goggles.

c) Those engaged in welding works shall be provided with welder's protective eye-shields.

d) Stone breakers shall be provided with protection goggles and protective clothing and seated at sufficiently safe intervals.

e) When worker are employed in sewers and manholes which are in use, the Contractor shall ensure that manhole covers are opened and manholes are ventilated atleast for an hour before worker are allowed to get into them. Manholes

opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to public.

f) The Contractor shall not employ, men below the age of 18 and women on the work of painting with products containing lead in any form wherever men above the age of 18 are employed on the work of lead painting the following precautions shall be taken.

i) No paint containing lead or lead product shall be used except in the form of paste or ready-made paint.

ii) Suitable face masks shall be supplied for use by workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.

iii) Overalls shall be supplied by the Contractor to workmen and adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

g) When work is done near any place where there is risk of drowning all necessary equipment shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision made for prompt first aid treatment of all injuries likely to be sustained during the course of work.

Use of hoisting machines and shackles including the attachments, anchorage supports shall confirm to the following :-

a) i) These shall be of good mechanical construction, round materials and adequate strength and free from potent defect and shall be kept in good repair and in good working order.

ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and of adequate strength and free from potent defects.

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b) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in-charge of any hoisting machine including any scaffolding.

c) In case of every hoisting machine and of every chain ring hook, shackleownel and pulley block used in hoisting or lowering or as means of suspension safe working load shall be ascertained by adequate means. Every hoisting machines and all gear referred to above shall be plainly marked with safe working loads. In case of hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

d) In case of departmental machines safe working load shall be notified by the Engineer-in-charge. As regards Contractor's machines the Contractor shall notify safe working load of each machine to the Engineer-in-charge whenever, he brings it to site of work and get it verified by the Engineer-in-charge. Motors, gearing , transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with such means as will reduce to the minimum risk of accidental descent of load. Adequate precaution shall be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced, when worker are employed. On electrical installations which are already energise insulating materials wearing approved such as gloves, sleeves and coats as may be necessary shall be provided. Workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near place of work.

These safety provisions shall be brought to the notice of all concerned by display on a notice board at a prominent place at the work spot. Persons responsible ensuring compliance with the safety code shall be named therein by the Contractor.

i) To ensure effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the Contractor shall be open to inspection by the Engineer-in-charge or his representatives and the inspecting officers.

ii) Failure to comply with the provisions hereunder shall make the Contractor liable to pay to the Department as penalty an amount not exceeding Rs.50/- for each default and decision of the Engineer-in-charge shall be final and binding. Notwithstanding the above conditions 1 to 14 the Contractor is not exempted from the operation of any other Act or rules in force.

31. SCOPE OF RATES FOR DIFFERENT ITEMS OF WORK :

For item rate contracts, the contract unit rates for different items of work shall be payment in full for completing the work to the requirements of the specifications including full compensation for all the operations detailed in the relevant sections of these specifications under "Rates" . In the absence of any directions to the contrary, the rates are to be considered as the full inclusive rate for finished work covering all labour materials, wastage, temporary work, plant , equipment, overhead charges and profit as well as the general liabilities, obligations and risks arising out of the General of Contract.

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The item rates quoted by the Contractor shall unless otherwise specified, also included compliance with /supply of the following :

i) General works such as setting out, clearance of site before setting out and clearance of works after compliance.

ii) A detailed programme for the construction and completion of the work (using CPM / PERT techniques) giving, in addition to construction activities, detailed network activities for the submission and approval of materials, procurement of critical materials and equipment, fabrication of special products/ equipment's and their installations and testing and for all activities of the employer that are likely to effect the progress of work, etc. including updating of all such activities on the basis of the decisions taken at the periodic site review meeting or as directed by the Engineers.

iii) Samples of various materials proposed to be used on the work for conducting tests thereon as required as per the provisions of the contract.

iv) Designs of mixes as per the relevant clauses of the specifications given proportions of ingredients, sources of aggregates and binder along with accompanying trial mixes as per the relevant clauses of these specifications to be submitted to the engineer for his approval before use of the works.

v) Detailed design calculations and drawings for all temporary works (such as formwork, staging, centering, specialised constructional handling and launching equipment and the like).

vi) Detailed drawings for templates, support and end anchorage, details for prestressing cable profiles, bar bending and cutting schedules for reinforcement, material lists for fabrication of structural steel etc.

vii) Mill test reports for all mild and high tensile steel and cast steel as per relevant provisions of the specifications.

viii) Testing of various finished items and materials including bitumen, cement concrete, bearings as required under these specifications and furnishing test reports/ certificates.

ix) Inspection reports in respect of formwork, staging, reinforcement and other items of work as per the relevant specifications.

x) Any other data which may be required as per the specifications or the conditions of contract or any other annexures/schedules forming part of the contract.

xi) Any item of work which is not specifically provided in the Bill of Quantities but which is necessary for complying with the provisions of the contract ; and

xii) All temporary works, formwork and false works.

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Portions of road works beyond the limits and or any other work may be got constructed by the employer directly through other agencies. Accordingly, other agencies employed by the employer may be working in the vicinity of the work being executed by the Contractor. The Contractor shall liaise with such agencies and adjust his construction programme for the completion of the work accordingly and no claim or compensation due to any reason whatsoever will be entertained on this account. The employer will be indemnified by the Contractor for any claims from other agencies on this account.

xiii) Public Utilities:

Action in respect of public utilities will be taken by the Contractor as envisaged in Clause 110 of Ministry's Specifications for Road and Bridge work (2nd Revision).

32. PAYMENTS:

a) RUNNING BILLS

Two payments in a month will be granted by the Engineer-in-charge if the progress is satisfactory. Contractor should submit bills to the Engineer-in-charge in appropriate forms.

- (i) The payment of carpet shall be made only after completion of seal coat.
- (ii) 10 % amount of premix carpet and seal coat. Shall be withheld from running account bills till the completion of side shoulders.

b) FINAL BILL

The Contractor should submit final bill within one month after completion of the work and the same will be paid within 3 months if it is in order. Disputed item and claims if any, shall be excluded from the final bill and settled separately later on.

33. HANDING OVER OF WORK:

All the works and materials before finally taken over by Government will be the entire liability of the Contractor for guarding, maintaining and making good any damages of any magnitude. Interim payments made for such work will not alter this position. The handing over by the Contractor and taking over by the Executive Engineer or his authorised representative will be always in writing of which copies will got to the Executive Engineer or his authorised representative and the Contractor. It is, however, understood that before taking over such work, Government will not put it into regular use as distinct from casual or incidental one, except as specifically mentioned elsewhere in this contract, or as mutually agreed to.

34 CLAIMS :

Bills for extra work or for any claim shall be paid separately apart from the interim bills for the main work. The payment of bills for the main works shall not be withheld for want of decision on the extras or claims not covered in the appendices.

Claims for extra work shall be registered within 30 days of the occurrence of the event. However, bills for these claims including supporting data/details may be submitted subsequently.

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35. MAINTENANCE:- (BUILDINGS)

35 (i) The Contractor shall maintain the finished and completed item of work as per Schedule 'B' and specification for a period 10 years for water proofing and 7 years for polyurethane and 2 years for remaining items after the completion of work without any extra cost to Government irrespective of the design, standards and specifications etc. The Contractor shall get done the civil work as per specifications and drawing and keep the building in good condition throughout the 10 years water proofing and polyurethane and 2 years for remaining items. 10% (Ten percent) amount of Anti terminate work and water proofing work only shall be withheld from running account bill for 10 years towards waterproofing from the date of actual completion of work as maintenance charges of the maintaining and keeping the building in good condition. This 10% amount withheld towards shall be allowed to be replaced with bank guarantee or other recognized form and intermediate state if so desired in writing. The maintenance charges shall be addition to security deposit.

35 (ii) On completion of the work in all respects, necessary certificate will be issued by the concerned Executive Engineer and the defects liability period will be counted from the date of issue of such certificates.

35 (iii) Defective work is liable to be rejected at any stage. The Contractor on no account can refuse to rectify the defects merely on reasons that further work has been carried out. No extra payment shall be made for such rectification.

36. In super session to whatever has been defined in Clause 10 and 11 of B-1 Agreement form or elsewhere in the N.I.T. documents, the Contractor shall submit detailed measurements of work done along with each Monthly bill and Final bill. The Engineer-in-charge shall effect necessary measurements, if possible. If it is proved that the measurements are mindfully and swollen incorrect / irrelevant, the Engineer- in-charge shall deduct 25% of the actual payment due, towards correction of payment.

Working Drawing :

The Contractor shall submit two sets of working drawings on the base of which the measurements as aforesaid , shall be based.

37. TECHNICAL COMPLETION REPORT :

The Contractor shall submit Technical Completion Report along with his final bill, which shall include.

- i) Detailed measurements
- ii) Working Drawings
- iii) Details of material brought on site and consumed in the work, which shall also indicate standard consumption and deviation, if any, with reasons.
- iv) Test results of all materials used in work with an abstract of total tests carried out and required as per frequency of tests as laid down in acceptance criteria.
- v) Rougho-metre survey data as laid down in the relevant M.O.R.T.& H. specifications.
- vi) Design Calculations / Job-Mix formula / Mix Design etc.
- vii) Maintenance-manual.

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38. QUALITY ASSURANCE AND MAINTENANCE (FOR WORKS COSTING MORE THAN 100 LAKHS) :

1. Ensure the specified quality of work which will also include necessary surveys, temporary works, etc. the contractor shall prepare a quality assurance plan and get the same approved from the Engineer-in-charge within one month from the date of work order. For this, the Contractor shall submit an organization chart of his technical personnel to be deployed on the work along with their qualifications, job descriptions defining the functions of reporting, supervising, inspecting and approving. The Contractor shall also submit a list of tools, equipment and the machinery and instrumentation which he proposes to use for the construction and for testing in the field and/or in the laboratory and monitoring. The Contractor shall modify/supplement the organization chart and the list of machinery, equipment, etc. as per the directions of the Superintending Engineer and shall deploy the personnel and equipment on the field as per the approved chart and list respectively. The Contractor shall submit written method statements detailing his exact proposals of execution of the work in accordance with the specifications. He will have to get these approved from the Engineer-in-charge. The quality of the work shall be properly documented through certificate, records, checklists and logbooks of results etc. Such records shall be compiled from the beginning of the work and be continuously updated supplemented and this will be the responsibility of the Contractor. The forms should be got approved from the Executive Engineer-in-charge.

38.1.1 Contractor shall prepare a Quality Assurance Plan (QAP) for this work.

The QAP shall include the following.

- i) Bar chart and CPM/ PERT
- ii) Personnel deployment with their responsibilities.
- iii) Schedule of weekly / Monthly Meeting at site office involving all functions
- iv) Use of Computer for Project Management.
- v) Monthly Progress Reports.
- vi) Quality Procedures.
- vii) Calibration of instruments used on site
- viii) Material sources and testing frequency and reports.
- ix) Safety measures.
- x) Reference to appropriate approved drawings.
- xi) Defect Liability: how the contractor going to deal with this.
- xii) Reference to specification, codes etc.

The contractor shall give the above plan to Engineer-in-charge within 15 days from the date of work order. The Engineer –in-charge will approve the plan within about a week's time. The contractor shall adhere to the procedure stipulated in the tender document and quality assurance plan prepared by him.

38.1.2 The contractor shall prepare detailed completion drawing after completion of the work. He shall also prepare and submit a maintenance manual giving procedure for maintenance, including inspection, tools and equipment to be used, means of accessibility for all parts of the structure. He shall also include in the manual, the specification for maintenance work that would be appropriate for his design and technique of construction. This manual shall be submitted within the contract period.

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38.1.3 The contractor shall make comprehensive inspection of the structure every six months after completion of the work till the end of defect liability period. The defects noticed if any shall be rectified at his own cost under the supervision of Engineer-in-charge.

38.2 Where the work is to be done on lumpsum basis on Contractor's design, the Contractor shall also prepare and submit a maintenance manual giving procedure for maintenance, with the periodicity of maintenance works including inspections, tools and equipment to be used, means of accessibility for all parts of the structure. He shall also include in the manual the specifications for maintenance work that would be appropriate for his design and technique of construction. This manual shall be submitted within the contract period.

39. PHOTOGRAPHS:

So as to observe the progress of work at different stage of execution of works, the Contractor shall take out **coloured photograph at 3 stages i.e.**

1) Before execution, 2) During execution, and 3) After completion of work. Contractor shall take out atleast 15 photographs of different location of each subworks at each stage. The photographs will be of post card size and the same shall be submitted along with the running bill in duplicate.

No extra cost shall be paid to the Contractor on this account.

Additional Conditions for Green Building Norms: -

Preserve and protect landscape during construction and soil conservation till post - conservation.

39.2.1. The contractor shall preserve the topsoil and existing vegetation. The contractor shall by proper planning of timing of construction activity shall be minimize site disturbance such as soil pollution due to spilling of the construction material and its mixing rain water. The contractor shall use staging and spill prevention and control plan to restrict the spilling of the contaminated material on site. The contractor shall also control erosion and sedimentation.

39.2.2. The cont shall restrict the construction to pre-planned / pre-designed areas with approval from Engineer-in-charge. The contractor shall submit site plan showing staging and spill prevention measures, erosion and sedimentation control measures along with photographic records to show that other area have not been disrupted during construction and to show erosion and sedimentation control measures adopted. The contractor shall submit site plan showing demarcate areas on site from which top soil has to be gathered, designate area where it will be stored, measures adopted for top soil preservation.

39.2.3. The contractor shall immediately after award of work shall excavate the topsoil for a depth of 200 mm and re-store the same at pre-designated space (in consultation with Engineer-in-charge) and also take measures (stockpiling, mulching) that this topsoil is not disturbed till the same is utilized or the work is completed. The payment for excavation and preservation of topsoil shall be paid in the respective items of the agreement.

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39.2.4. The contractor shall Vegetate / mulch area where vehicles do not ply. The contractor shall apply gravel / landscaping rock to the areas where mulching / paving is impractical. The contractor shall identify roads on side that would be used for vehicular traffic. The contractor shall upgrade vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral types that make up the surface and base. Add surface gravel to reduce source of dust emission and Limit amount of the fine particles (smaller than 0.075 mm) to 10% - 20%.

39.2.5. The contractor shall limit vehicular speed on site to 10 km./h.

39.2.6. The contractor shall reduce air pollution by wetting the surface by spraying water.

- (i) on any dusty materials before transferring, loading and unloading.
- (ii) areas where demolition work is being carried out,
- (iii) any unpaved main-haul road, and
- (iv) Areas where excavation or earth - moving activities are to be carried out.

39.2.7. The contractor shall minimize the disruption of the natural ecosystem.

39.2.8. The contractor shall plant a minimum of 1500 trees of variety as described by the Local Authority in the Campus. Whereas for the same the contractor shall initially develop and maintain a nursery at such a place as directed by the Engineer-in-charge. / Local Authority / Officer appointed by Engineer in charge.

Provide minimum level of sanitation / safety facilities for construction workers:

39.2.9. The contractor shall strictly follow the provisions contained in Clause No. 18 and sub-clause; Clause No. 19 and its sub-clauses of GCC - 2010 for providing basic amenities to the workers. The contractor shall ensure cleanliness of workplace with regard to the disposal of waste and efficiently provide clean drinking water and latrines and urinals as per applicable standard. The contractor shall strictly follow the "C.G.C.E. Karad SAFETY CODE" of GCC-2010.

39.2.10. The contractor shall comply with the National Building Code 2005 norms on construction safety for ensuring safety during construction. The National Building code 2005 has provisions for clean and hygienic accommodation, toilet facilities, purified drinking water, general store, a subsidized canteen, medical facilities, day care center and onsite safety equipment etc.,

39.2.11. The contractor shall adopt additional best practices and prescribed norms as in NBC 2005.

12. The contractor shall submit sufficient documentary and photographic evidences in compliance to above three paras.

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Reduce air pollution during construction:

13. The contractor shall ensure proper screening, covering stockpiles, covering brick and loads of dusty materials, wheel - washing facility and water spraying facility to reduce air pollution during construction. The site roads should be regularly sprayed with water and wheels of all vehicles would be washed to prevent air pollution. The contractor shall transfer, handle / store dry loose materials such as bulk cement and dry pulverized flay ash inside a totally enclosed system.

14. The contractor shall install dust screen (at least 3 M high) around the disturbed area to prevent air pollution and spillage to undisturbed site area.

15. The contractor shall undertake the responsibility to prevent air pollution (dust and smoke), ensure availability of adequate water supply for dust suppression, devise methodology to minimize impact of dust on the surrounding environment and ensure that these methods are implemented. The contractor shall provide documentary evidence regarding the method of working, plant equipment and air - pollution - control system being adopted on the site.

16. The contractor shall efficiently use the natural resources (water, energy and materials) and takes measures to conserve the natural resources.

17. The contractor shall prevent wastage of water during curing. The contractor shall also make efforts to minimize use of portable water during construction by proper and efficient construction water management on site.

18. The contractor shall construct sedimentation tank for collecting of excess curing water.

Reduction in waste during construction, efficient waste segregation, storage and disposal of wastes and resource recovery from waste :

19. The contractor shall ensure maximum resource recovery and safe disposal of wastes generated during construction and reduce the burden on landfill. The contractor shall segregate inert, chemical and hazardous wastes separately. The contractor shall make all efforts to recycle / safe disposal of segregated wastes (oil, paint, batteries and asbestos). The contractor shall dispose-off the inert waste at landfill sites duly approved by local body / Engineer in charge.

20. The contractor shall keep record of all waste generated during construction activity and storage facility for segregated inert and hazardous waste before recycling and disposal.

21. The contractor shall use multi-colored bins for waste segregation at source at his own for the collected waste before transferring to the recycling / disposal stations.

22. The contractor shall (in consultation with Engineer in charge) allocate separate space for the collected waste before transferring to the recycling / disposal stations.

23. The contractor shall make arrangements for recycling of waste through local (Junk) dealers. The contractor shall also keep record of such transactions and provide the same to the department as and when required.

24. The contractor shall make all efforts for achieving zero waste generation by adopting appropriate resource recovery measures.

Use Low-VOC paints / adhesives / sealants :

25. The contractor shall use zero / low - VOC paints duly approved by Engineer - in - charge and shall not use solvent based oil paints. The contractor shall also submit certificates and vouchers from suppliers / manufacturers that the paint used are zero / low - VOC paints.

The prescribed VOC limits for paints to be used are given in the table below :-

VOC Limits for paints.

Paint application	VOC Limits (g of VOC per litre)	
Interior coating	Flat	< 50
	Non Flat	<100
Exterior coating	Flat	<200
	Non flat	<100
Anti corrosive Gloss / Semi Gloss/Flat		<250

VOC Limits for paints.

Coating	VOC Limits (g of VOC per litre)
Clear wood finishes	
# Varnish	350
# Lacquer	550
Floor Coating	100
Stains	250

26. The contractor shall use water based low - VOC sealants (acrylics, silicones and siliconized acrylics) and adhesives (acrylic or phenolic resins) duly approved by Engineer-in-charge. The solvent oil based / low in oil solvent content sealants (urethanes and butyls) and adhesives shall not be used in the construction. The contractor shall also submit certificates and vouchers from suppliers / manufacturers that the sealants / adhesives used are low - VOC sealants / adhesives.

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27. The contractor shall not use wood in construction. The composite wood products shall be free from urea-formaldehyde resins. The flush door proposed to be used as per the item of this NIT shall confirm to G.C.E. Karad specification 2009 with up to date correction slips. The contractor shall also submit certificates and vouchers from suppliers / manufacturers that the composite wood products are free from urea-formaldehyde resins.

Minimize ozone depleting substances:

28. The contractor shall employ 100% zero ODP (ozone depletion potential), HCFC (hydrochloro-fluorocarbon) free and CFC (chloro-fluorocarbon) free insulation such as HCFC free rigid foam insulation, mineral fiber cellulose insulation, glass fiber, wood fiber board, cork wool, expanded (bead) polystyrene, recycled newspaper and jute and cotton duly approved by Engineer in charge. The contractor shall not use materials which are not inherently zero-ODP such as polyurethane foams and polyisocyanurates. The contractor shall also submit certificates and vouchers from suppliers / manufacturers that the insulation used are ODP / CFC/ HCFC free.

Ensure Water Quality:

29. The contractor shall ensure that water used in construction meets the water quality norms as prescribed in the Indian Standards for various applications. The contractor shall get the water tested with regard to its suitability of use in the works and get written approval from the Engineer-in-charge before he proceeds with the use of same for execution of works. If the water is not suitable, the contractor shall arrange Municipal water or from any other sources at his own cost and nothing extra shall be paid to the contractor on this account. The water shall be got tested at frequency specified in latest G.C.E. Karad specification / BIS code.

30. PRESERVATION OF EXISTING TREES :

It is obligatory on the part of contractor to take utmost care to preserve the existing trees as it is and in no case contractor shall be allowed to cut the existing trees or the branches thereof, without written permission of the Engineer in charge and the competent authority. The existing trees shall be protected by erecting 1.2 m high temporary half brick partition wall in the form of tree guard at no extra cost.

31. Entry and exit of the construction vehicle shall be properly maintained by merging in and diverging out so to avoid the accidents.

32. The contractor shall display the board at the site showing the name of work, project cost, project duration, name of contractor, etc., as directed by Engineer in charge.

33. Contractor shall be fully responsible for any mishaps / accidents during construction at the time of construction. He should make all necessary safety arrangements to ensure safety of existing building users. He should get necessary insurance cover. Offer of contractor shall be inclusive of all costs for making such insurance cover and safety arrangements. He shall not be paid separately for making such necessary arrangements.

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34. Engineer in charge for Civil work will be Executive Engineer, Govt. College of Engg. Karad . However, total coordination will be done by the Principal Govt. College of Engg. Karad through the appointed Local Authority / Officer appointed by Engineer in charge.

35. Any damages to the existing structure shall be made good by the contractor at his cost, as per the instructions of engineer in charge. He shall not be paid separately for making such necessary repairs to damages. Offer of contractor shall be inclusive of all costs for making such necessary repairs.

36. The contractor should make adequate provisions and make preventive arrangement to avoid dust and noise pollution in the premises at his own cost.

37. Additional Condition: (For Building Works Only)

While Building work is in Progress contractor shall plant at least 50 Numbers of trees by the site in Building premises as directed by Engineer in charge and shall have maintain them by watering etc. till the completion of work.

Additional Condition

40. While Building work is in Progress contractor shall plant at least 50 Numbers of trees by the site in Building premises as directed by Engineer in charge and shall have maintain them by watering etc. till the completion of work.

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41. Supervising Control and Data Acquisition (SCADA) for

41.1) I) Concrete Batch Mix Plant (Pan Type)

Fully Automatic Micro Processor based PLC with SCADA Enabled Concrete Batch Mix Plant (Pan Mixer) of minimum 18-20 cubic metre per hour capacity of any standard company.

Concrete Batch Mix Plants PAN Type Minimum 18-20 cum/hr.

It shall have minimum following FEATURES (Technical Specification)

- > Fully Automatic Micro Processor based PLC with SCADA system.
- > Protected Enclosure for Dusty Atmosphere.
- > Facility to use 4 Aggregates, 1 Cement and 1 Water as standard.
- > Highly accurate batching material in Air Concept Adjustable batch size.
- > Fly ash / Admixture report for each batch.
- > Online Water Correction Discrete / Continuous mode.
- > Easy calibration of Weighers.
- > Stainless steel corrosion resistant Load Cells.
- > Electronic weighing of all components including water, admixtures etc.,
- > Automatic Buzzer sound after every production end.
- > Interfacing with Computer for Data Backup and printout.

II) Concrete Reversible Drum

Fully Automatic Micro Processor based PLC with SCADA Enabled Reversible Drum Type Concrete Mixer of minimum 12 to 15 cum/hr capacity of any standard company.

It shall have minimum following FEATURES (Technical Specification)

- # Fully automatic ; no skilled operator shall be required.
- # Zero vibration if Diesel operated.
- # Four Bin Digital Weighing System.
- # Atomized Digital Water Feeding System.
- # Atomized Digital Admixture Feeding System.
- # SCADA enabled Batch System.
- # Centralized Lubrication System.
- # Machine Output / Hour Minimum - 12 to 15 Cum/Hr.
- # Water Tank Capacity Minimum - 150 Liter.
- # Load Cell Based Weighing System with Digital Display.

III) Curing System

Contractor shall install pressure control water curing system using necessary pumps, UPVC pipe network, water / flow meter linked with SCADA, etc., complete.

IV) Transportation - Transit Mixer / Pumps

Transit mixers and / or concrete pumps of desired number and capacity with SCADA.

41.2 All Cement Works, Masonry / Plaster etc.,

Curing System -

Contractor shall install pressure control water curing system using necessary pumps, UPVC pipe network, water / flow meter linked with SCADA, etc., complete.

41.3 Machinery & Testing Equipment -

a) CTM

The contractor shall install Compression Testing Machine (CTM) for the testing cement mortar, concrete at the site, linked with "SCADA" etc., complete. The data so acquired shall be uploaded to G.C.E. Karad Website in real time with time lag not more than 30 seconds.

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41.4 GIS MAP

Communicate the Data which is beyond the set parameters by SMS and e-mail to the representative of Engineer In Charge for all 41.1 to 41.4 above.

41.5. THE OFFER OF THE CONTRACTOR SHALL INCLUDE :-

- (1) The cost of procuring, establishing, running, operating and maintaining SCADA including all Censors, Vehicle Tracking System (VTS) and any other instrumentation, automation required to acquire the desired data, mentioned at **41.1 to 41.4** above.
- (2) Web connectivity to all locations where data is being acquired, transmitted, processed stored and retrieved with minimum speed of 1 MBPS and 100% availability. The contractor shall provide the web application in such a manner that it shall first update the above data in real time on G.C.E. Karad 's works monitoring e-governance web application automatically. The contractor shall put his request to Engineer in charge to get access to the G.C.E. Kara e-governance web application.
- (3) Web-based application including Computer Software, Hardware etc., to transmit, process, store and retrieve the data in the forms and formats as prescribed by the Engineer in charge.
- (4) Arrangement for security of data, Disaster recovery arrangements shall be as per IT Industry practice, during the construction period and upto defect liability period. (DLP) Handing over the data on the web server after DLP in Electronic form as instructed by Engineer in charge.
- (5) Calibration of all SCADA related attachments / accessories as per the specification :- Web based application to monitor the schedule of calibration of all SCADA related attachment / accessories. The invalidity of calibration shall lead to non - acceptance of work of measurement and the contractor shall not be paid for such non-accepted work or measurements.
- (6) Submission of printed and authenticated reports to the Engineer in charge as and when required.
- (7) Point (1) to (6) above shall be arranged and maintained during contract period and defect liability period.
- (8) Cost includes rectification, fine tuning, corrections, additions and alterations to the system to the satisfaction of Engineer Incharge.
- (9) All data generated as per this special condition of contract shall be the property of G.C.E. Karad.

41.6 The Contractor shall make all necessary arrangement required under Clause 41.1 to 41.4 above (Supervising Control and Data Acquisition for Bituminous / WBM / Concrete Works / all cement works / masonry / plaster / Testing Equipment's items) well in advance before starting of the related items of work. All necessary arrangements so made shall be offered for inspection to Engineer in charge one month prior to the start of the related items of work. Changes if any, after his inspection suggested by the Engineer in charge shall be carried out at no extra cost and within the period of Three days. A fresh request for inspection, of Engineer in charge after such rectifications shall be requested by the Contractor and final approval to the SCADA arrangements as specified in clause no. 19 shall be obtained.

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Web Connectivity :-

The contractor shall provide web connectivity through satellite communication supporting mobile devices to the above monitoring system (mobile VSAT). The web connectivity shall have minimum two MBPS internet speed and 99% availability. Software should be intelligent; in case of connectivity failure it should maintain the pending files and send them as soon as it is connected. The contractor shall make sure that the entire software and hardware solution is virus free.

The offer of contractor shall be inclusive of all. He shall not be paid separately.

41.7 The Contractor shall make all necessary arrangement required under Clause 41.1 to 41.6 above (Supervising control and data acquisition for concrete works / all cement works / masonry / plaster / Testing Equipment's items, submission and approval of bill/s) well in advance before starting of the related items of works and activities. All necessary arrangements so made shall be offered for inspection to Engineer in charge / PMC / Officer appointed by the engineer in charge one month prior to the start to the related items of work. Changes if any after his inspection suggested by the Engineer in charge / PMC / Officer appointed by the engineer in charge shall be carried out at no extra cost and within the period of three days. A fresh request for inspection, of Engineer in charge / PMC / Officer appointed by the engineer in charge after such rectifications shall be requested by the Contractor and final approval to the arrangements of SCADA and submission and approval of bill/s be obtained.

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GENERAL SPECIFICATIONS FOR WATERPROOFING

Rates for respective items shall include for the additional specifications: -

1. The work of water proofing described in the following items shall be carried out by the contractor only through a renowned specialist waterproofing agency using cement waterproofing compounds, as approved in writing by the Executive Engineer.
2. The contractor shall give before actual execution, detailed specifications for each item of work of waterproofing to be executed according to the specifications of specialist agency he proposes to employ, for approval. The work shall not be started unless approval in writing is given by the Engineer-in-charge to the said specification.
3. The contractor shall give a guarantee bond on requisite stamp paper for a minimum period of 10 (Ten) years for all the items of waterproofing done. During the guarantee period the contractor shall entirely be responsible in rectify any defect at his own cost to maintain the work in waterproof condition. The waterproofing contractor shall also have to make good all the surroundings disturbed by him during the rectification work at his own cost. The form of written guarantee shall be on a legal stamped agreement acceptable to the Government. The Guarantee shall be given within one month from the date of completion of waterproofing treatment but any delay in furnishing the guarantee shall not relieve the contractor from the implications of this clause.
4. 10% (ten percent) of the cost of the waterproofing work executed shall be retained as "Retention Money" for a period of ten years covering the guarantee and the same shall be released only after satisfactory performance of the treatment during guarantee period of 10 years.
5. The waterproofing agency shall provide and install at its own cost the following for its own use and remove the same after completion of the work :
 - i) Two pumps electrical / diesel operated for watering and curing at any level in the building. Curing for all items shall be carried out for a minimum period of 14 days.
 - ii) Temporary Mild Steel water storage tanks.
 - iii) Temporary galvanized iron piping and fittings for water line.

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- iv) Flexible hose lengths.
 - v) Cement godown, site office.
6. Injections to reinforced cement concrete slab, wherever required have to be undertaken by the contractor free of cost.
7. Before starting the waterproofing work, the surface receiving the treatment shall be cleaned properly.
8. The item of waterproofing as given in the Schedule 'B' applies for work in any position and on any floor and at any height. The lift of materials shall not form any criteria for extra payment.
9. For the reference of contractor, guideline specifications for waterproofing are attached herein with the General Specifications.

Water Supply and Plumbing

Contractor shall get the Internal Water Supply and Plumbing design repaired from certified Consultant.

These design/drawing shall be got approved from Engineer-in-charge before execution of work.

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GENERAL GUIDELINES FOR WATERPROOFING WORK FOR REFERENCE OF CONTRACTOR

(NOTE :- The contractor is required to give detailed specifications for each item of waterproof work).

1. **Proof slab and Terrace:**

Providing average 112 mm thick cement based waterproofing treatment with brick bat Coba bedding by keeping the treatment minimum 75mm thick at the rain water pipe point and keeping the gradient not flatter than 1 in 100.

- a) Cleaning the surface to the requirements.
- b) Giving a coat of wash mixed with cement.
- c) Providing 12mm thick cement mortar bed with admixture of waterproofing compound to form a bed for brick bats. Special care shall be taken at the junction of parapet and terrace slab to ensure gaps, if any, are properly sealed.
- d) Placing brickbats of varying sizes (average 80mm thick) to a proper slope and grouting their joints with chemical process in cement mortar with 2% with waterproofing compound.
- e) Providing all around the terrace large waterproof wattas (rounding) upto a height of
30 cm. in P.C.C. or as directed above the furnished level of waterproof treatment.
- f) Finishing and curing for 14 days.
- g) Carrying out the test. Payment for the item shall be released only after results of pond test are satisfactory.

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2. Toilets :

- a) Cleaning the surface to the Department's requirements.
- b) Giving a coat of wash mixed with cement.
- c) Providing 25mm thick waterproof treatment to the bottom of toilet floors.
- d) Providing 20mm to 25mm thick cement mortar waterproof treatment to the walls of toilets upto the height of 1.00 meter above the finished floor level.
- e) Providing waterproof wattas all around the toilets.
- f) Grouting the mouths of inlets and outlets.
- g) Filling sunk portion with brick bats including water proof mortar and the top surface left rough to form a key for tiles.

OVERHEAD TANK:

The work under some items in Schedule 'B' of the tender pertains construction of underground / overhead water tank. After completion of the work, water tank as a whole shall be tested for water tightness and leakages if any shall be rectified forthwith without any extra cost to the Department.

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**GUARANTEE BOND FOR WATERPROOFING AND POLYURETHANE
(On Stamp Paper worth Rs. 100/-)**

**NAME OF WORK : CONSTRUCTION OF SC/ST GIRLS HOSTEL BUILDING
AT GOVERNMENT COLLEGE OF ENGINEERING KARAD,TAL.KARAD,
DIST.SATARA.**

NAME OF AGENCY:

Agreement No.

The Contractor thereby declared that the waterproofing work carried out under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained / mentioned in the clause hereof and the contractor hereby guarantee that the said work would continue to conform to the description and quality aforesaid for a period of ten years from the date of handing over the said work to the Department and notwithstanding the fact that the Department may have inspected and or approved the said work. If during the aforesaid period of ten years, the said work be discovered not to conform to the description and quality aforesaid or have deteriorated (and the decision of the Engineer-in-charge in that behalf will be final and conclusive) the Department will be entitled to reject the said work or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection, the work will be at the Contractor's risk and all the provisions herein contained relating to rejection of work etc. shall apply. The contractor shall, if so called upon have to make good the work etc. or such portion thereof, as is rejected by the Engineer-in-charge, otherwise the contractor shall pay to the Institute, such damages, as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Department in that behalf under this contract or otherwise.

Date :

Place :

Contractor

Signature of Contractor

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Name of Work:-Construction of SC / ST Girls hostel Building at Government College of Engineering Karad. Tal. Karad Dist. Satara					
ABSTRACT SHEET					
SCHEDULE B					
SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
A	Site Cleaning				
1	Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.	SQM	3305.00	6.30	20821.50
	SSR Item code - 21.34 BDW page no. 157				
B	EXCAVATION AND FILLING				
2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum , including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. By Mechanical Means				
	FOR LIFT UPTO 1.50M	CU.M.	633.76	217.35	137747.74
	SSR Item Code - 21.02 BDA 1 Page No. 153				
	Spec. No.: Bd.A.1 Page No. 259				
3	Excavation for foundation in hard murum including removing the excavated materia up to distance of 50metres beyond the building area and stacking and spreading as directed , dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift upto 3.0 m) By Mechanical Means				
	FOR LIFT UPTO 1.50M	CU.M.	221.96	238.35	52904.17
	SSR Item Code - 21.06 BDA 2 Page No. 153				
	Spec. No.: Bd.A.2 Page No. 259				
4	Excavation for foundation in hard murum and boulders including removing the excavated material upto a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc.complete. (Lift from 1.5 m to 3.0 m) By Mechanical Means				

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	FOR LIFT FROM 1.50M TO 3.0M	CU.M.	190.21	327.60	62312.80
	SSR Item Code- 21.12 BDA 3 Page No. 154				
	Spec. No.: Bd.A.3 Page No. 259				
5	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper.As directed by Engineer in charge	SQM	992.83	112.35	111544.45
	SSR Item Code - 21.22 BDW Page No. 155				
	Spec. No.: As directed by Engineer in charge.				
6	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) treatment by treating the back fillin immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 per centofclorophyrifos per square metre of vertical surface area covering 10 years guarantee on bond paper.	SQM	215.73	117.60	25369.85
	SSR Item Code - 21.23 BDW Page No. 155				
	Spec. No.: As directed by Engineer in charge.				
7	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per squaremetre of surface area covering ten year sguarantee on bond paper.	SQM	1178.19	113.40	133606.75
	SSR Item Code - 21.24 BDW Page No. 156				
	Spec. No.: As directed by Engineer in charge.				
8	Filling in plinth and floors with approved excavated material in 15cm. To 20cm. layers including watering and compacting etc. complete.	CU.M.	412.17	126.00	51933.42
	SSR Item Code - 21.36 BDA 10 Page No. 157				
	Spec. No.: Bd.A.10 Page No. 262				
9	Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	CU.M.	202.80	931.61	188930.51
	SSR Item Code - 21.37 BDA 11 Page No. 157				
	Spec. No.: Bd.A.11 Page No. 263				
	TOTAL FOR EXCAVATION AND FILLING -				785171.19

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
C	PLAN CEMENT CONCRETE				
10	Providing and laying Cast in situ / Ready Mix cement concrete in M15 of trap / granite / quartzite / gneiss metal for steps including steel centering, formwork, laying / pumping, compacting, roughening the m if special finish is to be provided, finishing uneven and honey combed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honey combed surface, only. Newly laid concretes shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	CU.M.	185.70	7017.23	1303085.58
	SSR Item Code - 24.04 BDE 2 Page No. 175				
	Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No. 38				
		TOTAL FOR PLAIN CEMENT			1303085.58
D	REINFORCED CEMENT CONCRETE				
11	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. work in foundations like raft , strip foundations , grillage and footings of R.C.C. columns and steel stanchions etc including bailing out water, Steel centering, formwork, coverblocks, laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely	CU.M.	313.37	7977.59	2499937.38
	SSR Item Code - 25.13 BDF 3 Page No. 178				
	Spec. No.: Bd.F.3 Page No. 298 and B.7 Page No. 38				

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
12	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying / pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)				
	SSR Item Code - 25.33 BDF 5 Page No. 180				
	Spec. No.: Bd.F.5 Page No. 300 and B.7 Page No. 38				
	Rate Analysis No. 12				
	Ground floor	CU.M.	106.23	14991.59	1592556.61
	First Floor	CU.M.	64.45	15131.26	975270.23
	Second floor	CU.M.	64.45	15270.93	984272.52
	Terrace floor	CU.M.	33.52	15410.60	516594.13
13	Providing and laying Cast in situ / Ready Mix cement concrete in M-25 of trap / granite / quartzite / gneiss metal for R.C.C.beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, coverblocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Natural Sand/ Crushed sand VSI Grade finely washed etc)				
	SSR Item Code - 25.52 BDF 6 Page No. 181				
	Spec. No.: Bd.F.6 Page No. 300 and B.7 Page No. 38				
	Plinth Beam	CU.M.	85.50	13400.84	1145771.82
	Ground floor	CU.M.	106.11	13400.84	1421963.13
	First Floor	CU.M.	92.75	13525.36	1254477.14

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	Second Floor	CU.M.	92.75	13649.88	1266026.37
	Terrace floor (staircase cap and LMR)	CU.M.	6.84	13774.40	94216.90
14	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork , coverblocks, laying / pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc.complete, (Excluding reinforcement and structural steel).with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc.complete.With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)				
	SSR Item Code - 25.72 BDF 8 Page No. 182				
	Spec. No.: Bd.F.8 Page No. 302 and B.7 Page No. 38				
	Ground floor	CU.M.	107.19	15148.04	1623718.41
	First Floor	CU.M.	76.52	15289.20	1169929.58
	Second Floor	CU.M.	76.52	15430.36	1180731.15
	Terrace floor (staircase cap and LMR)	CU.M.	15.22	15571.52	236998.53
15	Providing and laying Cast in situ / Ready Mix cement concrete in M-25 of trap / quartzite / granite / gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood / steel formwork, steel props, laying / pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement, including cover block). (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)				
	SSR Item Code - 26.26 BDF 13A Page No. 186				
	Spec. No.: Bd. F. 13 Page No. 305 /I.S. 456 (2000)				

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	Ground floor	CU.M.	2.14	13182.44	28210.42
	First Floor	CU.M.	2.14	13304.88	28472.44
	Second Floor	CU.M.	2.14	13427.32	28734.46
16	Providing and laying Cast in situ / Ready Mix cement concrete in M-25 of trap / granite / quartzite / gneiss metal for R.C.C. pardi of required thickness including steel centering , formwork, cover blocks, laying / pumping, compacting and roughening the m if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc.complete.With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)				
	SSR Item Code - 26.19 BDF 11 Page No. 185				
	Spec. No.: Bd.F.11 Page No. 304 and B.7 Page No. 38				
	Ground floor	CU.M.	12.51	16863.74	210965.39
	First floor	CU.M.	7.80	17021.24	132765.67
	Second floor	CU.M.	7.80	17178.74	133994.17
	Terrace floor	CU.M.	7.80	17336.24	135222.67
17	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying / pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)				
	SSR Item Code - 26.07 BDF 9 Page No. 184				
	Spec. No.: Bd.F.9 Page No. 303 and B.7 Page No. 38				
	Ground floor	CU.M.	5.76	15148.04	87252.71
	First Floor	CU.M.	6.05	15289.20	92499.66
	Second floor	CU.M.	6.05	15430.36	93353.68
	Terrace floor	CU.M.	1.91	15571.52	29741.60

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
18	Providing and laying Cast in situ /Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, coverblocks, laying/ pumping, compacting, curing, finishing and roughening them if special finishistobe provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer /concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
	SSR Item Code - 26.23 BDF 12 Page No. 185				
	Spec. No.: Bd.F.12 Page No. 304 and B.7 Page No.38				
	Ground floor	CU.M.	8.77	7875.74	69070.24
	First Floor	CU.M.	6.20	7947.64	49275.37
	Second floor	CU.M.	6.20	8019.54	49721.15
	Terrace floor 1	CU.M.	5.16	8091.44	41751.83
	REINFORCEMENT STEEL				
19	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.				
	SSR Item Code - 26.33 BDF 17 Page No. 188				
	Spec. No.: Bd.F.17 Page No. 306				
	Plinth floor	MT	37.89	95982.21	3637020.29
	Ground floor	MT	33.13	96879.24	3209362.18
	First Floor	MT	24.31	97776.27	2377120.05
	Second floor	MT	24.31	97776.27	2377120.05
	Terrace floor 1	MT	6.69	97776.27	654410.71
	TOTAL FOR REINFORCED CEMENT CONCRETE -				29428528.64

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
E	BRICKWORK / BLOCKWORK				
20	Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.				
	SSR Item Code - 27.01 BDG 1 Page No. 197				
	Spec. No.: Bd.G. 1 Page No. 313				
	Ground floor	CU.M.	49.31	8479.38	418118.23
21	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)				
	SSR Item Code - 27.15 BDG Page No. 198				
	Spec. No.:As directed by engineer in charge				
	Ground floor	CU.M.	219.16	7707.00	1689066.12
	First Floor	CU.M.	206.44	7780.40	1606185.78
	Second floor	CU.M.	200.53	7853.80	1574922.51
	Terrace floor 1	CU.M.	67.39	7927.20	534214.01
	Terrace floor 2	CU.M.	9.64	8000.60	77125.78
22	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)				
	SSR Item Code - 27.16 BDG Page No. 198				
	Spec. No.:As directed by engineer in charge				
	Ground floor	SQ.M	53.52	1077.30	57657.10
	First Floor	SQ.M	58.39	1087.56	63502.63
	Second floor	SQ.M	58.39	1097.82	64101.71
		TOTAL FOR BRICK WORK -			6084893.87

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
F	WATERPROOFING WORK				
23	Providing and applying water proofing treatment using acrylic polymer modified cement based water proofing coating with fibre glass mesh mixing at the rate of powder to liquid (2:1) by weight covering 9 to 10 sqm /kg with two coat using approved chemicals for masonry and concrete surface by brush covering 7 years guarantee on Stamp Papers etc. complete.				
	SSR Item Code - 31.09 BDJ Page No. 206				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M	0.00	645.75	0.00
	First Floor	SQ.M	132.01	651.90	86057.32
	Second floor	SQ.M	570.63	658.05	375503.07
	Terrace floor	SQ.M	70.43	664.20	46779.61
24	Providing waterproofing in W.C. and bath including brickbat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @1 Kilogram /per bag of cement laying brickbat coba of required thickness in cm 1:5 with waterproofing compound 1Kilogram/ bag of cement grouting and finishing the top layer with 20 mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1Kilogram/ per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing				
	SSR Item Code - 31.26 BDJ Page No. 208				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	CU.M.	23.13	6785.05	156938.21
	First Floor	CU.M.	21.25	6847.00	145498.75
	Second floor	CU.M.	21.25	6847.00	145498.75
	TOTAL FOR WATER PROOFING WORK				956275.71

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
G	PLASTERING & POINTING				
25	Providing sand faced plaster externally in cement mortar using approved screeneds and,in all positions including base coat of 15mm thick in cement mortar 1:4 using waterproofing compound at 1kg per cement bag curing the same for not less than 2days and keeping the surface of the base coat rough to receive the sandfaced treatment 6 to 8mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.				
	SSR Item Code - 32.11 BDL 7 Page No. 209				
	Spec. No.:Bd.L.7 Page No. 369				
	Ground floor	SQ.M	798.03	679.64	542373.11
	First Floor	SQ.M	938.01	686.03	643503.00
	Second floor	SQ.M	927.63	692.42	642309.56
	Terrace floor	SQ.M	732.04	698.81	511556.87
26	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface , in all positions including scaffolding and curing etc.complete.				
	SSR Item Code - 32.07 BDL 4A Page No. 209				
	Spec. No.:Bd.L.4 Page No. 368				
	Ground floor	SQ.M	1294.37	409.79	530419.88
	First Floor	SQ.M	1063.10	413.61	439708.79
	Second floor	SQ.M	1063.10	417.43	443769.83
	Terrace floor	SQ.M	122.26	421.25	51502.03
27	Providing and fixing chicken mesh of 22 gauge,with about 30cm.width at the junction of R.C.C members and brickwork, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.				
	SSR Item Code - 32.26 BDL Page No. 210				
	Spec. No.:As directed by Engineer in Charge.				
	Ground floor	RMT	1225.76	59.85	73361.74
	First Floor	RMT	823.82	60.42	49775.20
	second floor	RMT	823.82	60.99	50244.78

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	Terrace floor	RMT	121.70	61.56	7491.85
28	Providing and applying Texture plaster with finishing with texture material of approved make in 3 to 4 millimeter thickness on previously plastered surface,including Plaster Groove 6mm thickness or Tape Grooves 35 to 45 mm thickness or as required,in all position including preparing the surface, scaffolding				
	SSR Item Code - 32.32 BDL Page No. 211				
	Spec. No.:As directed by Engineer in Charge.				
	Ground floor	SQ.M.	140.78	659.40	92830.33
29	Providing waterproof plaster in W.C. and bath 12 mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproof ing compound at the rate of 1kg. per bag of cement of approved make and manufacturer and curing etc. complete. (Excluding Tiles) (As directed by Engineer in Charge)				
	SSR Item Code - 31.06 BDJ Page No. 205				
	Spec. No.:As directed by Engineer in Charge.				
	Ground floor	SQ.M.	452.62	410.30	185709.99
	First Floor	SQ.M.	564.98	414.17	233997.77
	Second floor	SQ.M.	564.98	418.04	236184.24
30	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc				
	SSR Item Code - 32.34 BDL Page No. 212				
	Spec. No.:As directed by Engineer in Charge.				
	Ground floor	SQ.M.	1996.12	94.50	188633.34
	First Floor	SQ.M.	1582.80	95.40	150999.12
	Second floor	SQ.M.	1582.80	96.30	152423.64
	Terrace floor	SQ.M.	179.81	97.20	17477.53
		TOTAL FOR PLASTERING AND			5244272.60
H	FLOORING AND DADO				
31	Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain / diamond pattern on bed of 1:6 C.M. including cement float,filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.				

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	SSR Item Code - 33.06 BDM 3B Page No. 213				
	Spec. No.: Bd.M.3 Page No. 380				
	Ground floor	SQ.M.	198.77	1315.14	261410.38
	First Floor	SQ.M.	158.67	1327.61	210651.88
	Second floor	SQ.M.	158.67	1340.08	212630.49
	Terrace floor	SQ.M.	10.66	1352.55	14418.18
32	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25mm to 30mm thick fixed on base on plaster of cement mortar 1:4 including cement float, filling joints with cement slurry, curing rubbing, polishing and cleaning complete.				
	SSR Item Code - 33.81 BDM Page No. 221				
	Spec. No.:As directed by Engineer in Charge.				
	Ground floor	SQ.M.	15.64	1411.20	22071.17
	First Floor	SQ.M.	15.89	1424.64	22637.53
	Second floor	SQ.M.	15.89	1438.08	22851.09
	Terrace floor	SQ.M.	0.62	1451.52	899.94
33	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry,curing, polishing and cleaning etc. complete.				
	SSR Item Code - 33.18 BDM 22B Page No. 215				
	Spec. No.:Bd.M.22 Page No. 390				
	Ground floor	SQ.M.	25.43	1655.86	42108.52
	First Floor	SQ.M.	14.85	1671.58	24822.96
	Second floor	SQ.M.	14.85	1687.30	25056.41
	Terrace floor	SQ.M.	14.85	1703.02	25289.85
34	Providing and laying vitrified mirror / glossy finish tiles decorative type having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to I S. 15622 -2006 (group Bl a) of approved make , shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float , filling joints, curing and clearing etc. complete.				

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	SSR Item Code - 33.40 BDM 12 Page No. 217				
	Spec. No.:Bd.M. 12 Page No. 385				
	Ground floor	SQ.M.	410.06	1240.32	508605.62
	First Floor	SQ.M.	300.73	1252.09	376541.03
	Second floor	SQ.M.	300.73	1263.86	380080.62
	Terrace floor	SQ.M.	26.78	1275.63	34161.37
35	Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to I S. 15622- 2006 (group B1 a) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including with spacer or without spacer, neat cement float, filling joints, curing and clearing etc. complete				
	SSR Item Code - 33.41 BDM 12 Page No. 217				
	Spec. No.:Bd.M. 12 Page No.385				
	Ground floor	SQ.M.	594.25	1319.86	784326.81
	First Floor	SQ.M.	521.91	1332.38	695382.45
	Second floor	SQ.M.	521.91	1344.90	701916.76
	Terrace floor	SQ.M.	2.11	1357.42	2864.16
36	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming I S 15622-2006 (Group B1 a) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float , filling joints, curing and cleaning etc. complete.				
	SSR Item Code - 33.42 BDM 12 Page No. 217				
	Spec. No.:Bd.M. 12 Page No. 385				
	Ground floor	SQ.M.	161.23	1684.47	271587.10
	First Floor	SQ.M.	70.96	1700.47	120665.35
	Second floor	SQ.M.	70.96	1716.47	121800.71

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
37	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS.15622-2006 (Group B la) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.				
	SSR Item Code - 33.43 BDM 12 Page No. 217				
	Spec. No.:Bd.M. 12 Page No. 385				
	Ground floor	SQM	5.26	1758.75	9251.03
38	Providing and constructing granite kitchen platform with fixing of stainless steels in k 600 mm x 450 mm size as per detailed drawing including vertical both side polished kadappah stone 25 to 30 mm thick supports with kadappah top 35 to 40 mm thick and polished granite 16 to 20 mm top with side strips of granite at front and both sides of platform raised with two vertical granite supports 15 cm height and top granite of 75 x 40 cm including cutting, opening for sink of required size in kadappah as well as granite etc. complete. (Platform top size 5.00 m x 0.60 m and height is 0.75 m)				
	SSR Item Code - 41.78 BDV Page No. 273				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M.	3.00	10318.35	30955.05
39	Providing and Fixing Processed Stone Cladding on wall surface/ plywood surface. RCC pardi/ Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRC admixtures, Colour pigments, Fiber upto thick of 230mm/ 25mm including scaffolding, fixing of screw, etc. (As directed by Engineer in				
	SSR Item Code - 51.192 Page No. 409	SQ.M.	80.91	9032.37	730809.06
	Spec. No.:As directed by Engineer in charge.				
		TOTAL FOR FLOORING & DADO			5653795.52

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
I	PAINTING				
40	Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.				
	SSR Item Code - 35.21 BDO 8E Page No. 225				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M.	2794.15	37.80	105618.87
	First Floor	SQ.M.	2520.81	38.16	96194.11
	Second Floor	SQ.M.	2510.43	38.52	96701.76
	Terrace floor	SQ.M.	911.85	38.88	35452.73
41	Providing and applying interior wall finish luster of Asian/ Berger/ Nerolac/ Dulux Paints or equivalent make on internal wall surface as detailed below Scrapping the surface with emery paper and wipe clean. Applying Asian/ Berger/ Nerolac/ Duuex Paints or equivalent wall primer with brush with mineral turpentine with brush 8 to 10% and oil 15 to 20% with roller and allowing to dry for a period 6 to 8 hours. Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent Acrylic wall putty with appropriate proportion of water allowing to dry for period 4 to 6 hours. Scrapping with Emery paper 180 and wipe clean. Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent wall primer with brush with mineral turpentine 8 to 10% and oil 15 to 20% with roller Scrapping Emery paper 320 and wipe clean, Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent interior wall finish luster 1st coat with brush/ rubber/ spray with mineral turpentine 7 to 9% and Oil with roller 19 to 21% After 8 hours of activity Applying 2nd coat of Asian / Berger / Nerolac / Dulux Paints or equivalent interior wall finish Lustre with mineral turpentine 7 to 9 % with brush and Oil with roller 19 to 21% after allowing dry for the period of 6 to 8 hours activity				
	SSR Item Code - 36.20 BDP Page No. 228				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M.	1996.12	249.90	498830.39
	First Floor	SQ.M.	1582.80	252.28	399308.78

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	Second Floor	SQ.M.	1582.80	254.66	403075.85
	Terrace floor	SQ.M.	208.71	257.04	53646.82
42	Providing and applying two coats Apex Ultima Puranature Anti Pollution Or equivalent approved brand, paint should decomposes organic substances and inorganic gases(NO _x , VOC's, CO, SO _x , formaldehydes, etc.) in presence of natural or artificial light. It contains Graphene and nanoparticles of ium oxide. and Absorbs CO ₂ (4.8 kg/15 l). plaster crack should be filled by Acrylic base Crack seal/Textured Crack filler, Paint has to applied on one coat of Apex Ultima Puranature Anti- Pollution Primer or Equivalent. Warranty Should be given by the Manufaturer The work should be done by the Manufacturer Recommended applicator and he should be able to furnish stage wise onsite technical reports from the concerned company technologist.				
	SSR Item Code - 35.25 BDO Page No. 225				
	Spec. No. As directed by Engineer in charge.				
	Ground floor	SQ.M.	798.03	390.25	311431.21
	First Floor	SQ.M.	938.01	393.95	369529.04
	Second Floor	SQ.M.	927.63	397.65	368872.07
	Terrace floor	SQ.M.	732.04	401.35	293804.25
			TOTAL FOR PAINTING -		3032465.88
J	DOOR WINDOWS				
43	Providing and laying telephone black / Amba White / Cadbury brown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame / dado / window boxing etc.On C.M.1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete.				
	SSR Item Code - 33.68 BDM Page No. 220				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M.	132.96	4610.56	613020.06
	First Floor	SQ.M.	117.72	4654.42	547918.32
	Second floor	SQ.M.	117.72	4742.14	558244.72
	Terrace floor	SQ.M.	11.16	4786.00	53411.76

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
44	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads , mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with				
	SSR Item Code - 39.09 BDT 34 Page No. 246				
	Spec. No.:BD-T-34 Page No. 499				
	Ground floor	SQ.M.	34.08	3232.95	110178.94
	First Floor	SQ.M.	36.96	3294.53	121765.83
	Second floor	SQ.M.	36.96	3325.32	122903.83
	Terrace floor	SQ.M.	4.80	3356.11	16109.33
45	Providing and fixing Country cut teak wood double or single leaf second class fully panelled door shutter with 35mm thick style and rail with 25 mm thick panels with Eye hole as per detailed drawings. Excluding the door frame 60mm x 100mm stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats. (Excluding the door frame)				
	SSR Item Code - 39.04 BDT 7 and 8 Page No. 245				
	Spec. No.:BD-T-7 and 8 Page No. 481-82				
	Ground floor	SQ.M.	7.20	10052.70	72379.44

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
46	Providing and fixing in position (asper 1868/ 1982) Aluminium sliding window of three tracks with rectangular pipe 95x38. 10x0.90mm at weight 0.637 Kilogram/ One Running Metre. with window frame bottom track section 92x31.75x1.30 mm at weight 1.070Kilogram/ One Running Metre.. Top and side track section 92x 31.75 x1.30mm at weight 0.933Kilogram /Running metre. The shutter should be of bearing bottom 40x18x1.25mm at weight 0.417 Kilogram/One Running Metre. Interlocking section 40x18x1.10 mm at weight 0.469Kilogram/ Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running sper detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With powder coating without box				
	SSR Item Code - 39.44 BDT Page No. 254				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M.	108.00	5216.40	563371.20
	First Floor	SQ.M.	97.20	5266.08	511862.98
	Second floor	SQ.M.	97.20	5315.76	516691.87
	Terrace floor	SQ.M.	15.12	5365.44	81125.45
47	Providing and fixing in position powder coated aluminium louvered windows ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 milimetre x 1.22 milimetre box type, 5 milimetre thick sheet glass louvers, of approved quality complete.				
	SSR Item Code - 39.68 BDT Page No. 259				
	Spec. No.:As directed by Engineer in charge.				
	Ground floor	SQ.M.	13.50	3640.35	49144.73
	First Floor	SQ.M.	12.96	3675.02	47628.26
	Second floor	SQ.M.	12.96	3709.69	48077.58

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
48	Providing and Fixing 30 MM thick BOTH SIDE PRELAMINATED SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of M.S tubes of 19 guage thickness and,size19x19 mm for styles and 15x15 mm for the top and bottom rails, M.S frames hall have a coat of metel primer of approved make and manufacture. M.S frame shall be covered with heat mouled PVC'C'channel made from 5mm (+/0.25) thick prelaminated sheet of density 600kg/cbm,of size 30 mm thickness 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45° angle on either side forming stiles;and 5mm thick,95 mm wide PVC sheet out of which 75mm shall be falt and 20mm shall be tapered in 45 on the inner side toform top and bottom rail and 115 mm wide PVC sheet out of which 75mm shall be falt and 20 mm shall be tapered on both sides to form lockrail.Top,bottom and lockrail shall be provided either side of the panel.An additional 5mm (+/0.25) thick PVC strip of 20mm width is to be stuck on the bottom side of the'c'channel prelaminated paneling of 5mm (+/0.25) thick PVC sheet to be fitted inside the M.S.frame welded / sealed to the styles and rails with 5mm (+/0.25)x30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc,10mm thickness (5mm(+/0.25)x2nos) 20mm wide cross PVC sheet as gap insert for the rail and bottomrail.Door to be fixed toframes with 3nos M.S.powder coated but hinges of size100mm x 25MM x 2mm using 32mm long steel screws drilled suitable top as through both the walls of the M.S tube.Other hardwares should be fixed with 19 x 6 mm size steel screws including fixture fasting.Complete as per direction of engineer in charge.				
	SSR Item Code - 39.47 BDT Page No. 255				
	Spec. No.:As directed by Engineer incharge.				
	Ground floor	SQ.M.	39.38	6875.40	270753.25
	First Floor	SQ.M.	37.80	6940.88	262365.26
	Second floor	SQ.M.	37.80	7006.36	264840.41

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
49	Providing and fixing collapsible steel gate in one/ two leaves with hot rolled vertical channels of 18 x 9 x 3 milimetre minimum size, crossings of mild steel flats of size 18 x 5 milimetre T or E section for runner of minimum 40 x 6 milimetre size for flange, mild steel flat for top runner of minimum size 40 x 12 milimetre with roller wheels confirming to grade F.G. 150 fitted with snap headed rivets of minimum size 6 milimetre max. spacing of vertical channels be 100 milimetre enclosed gate position and clear space of 150 milimetre between two sets of crossings with hold fasts, stoppers, spaces, handles, locking arrangement and one coat of red lead primer & oil painting etc. complete. (I.S. 10521-1983).				
	SSR Item Code - 39.26 BDT 57 Page No. 249				
	Spec. No.:BD-T-57 Page No. 511				
	Ground floor	SQ.M.	10.51	4211.55	44263.39
50	Providing & fixing openable doors for kitchen otta using ply for structure 18 mm thick with handles and all interior surface should be finished with 0.8 mm thk. & all exterior surface should be finished with 1.0 mm thk. Including frame and other fixtures & fastenings or as per detailed drawing & design etc. complete.				
	Non SSR Item				
	Spec. No.:As directed by Engineer incharge.				
	Ground floor	Number	1.00	26676.52	26676.52
		TOTAL FOR DOOR WINDOWS -			4902733.13
K	IRON AND CEILING WORKS				
51	Providing and fixing mild steel grill work for windows , ventilators etc. 20 kg / sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.				
	SSR Item Code - 40.01 BDU 1 Page No. 264				
	Spec. No.:Bd.U.1 Page No. 537				
	Ground floor	SQ.M.	122.04	2201.85	268713.77
	First Floor	SQ.M.	110.16	2222.82	244865.85
	Second floor	SQ.M.	110.16	2243.79	247175.91
	Terrace floor	SQ.M.	17.28	2264.76	39135.05

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
52	Providing and Fixing mat finish stainless steel (of 302 grade) railing with top pipe of 50mm dia. and vertical pipe of 38mm dia at 0.60mc/ cor as required and horizontal pipes of 25mm dia in three rows, all pipes of 2mm thick including buffing, fabricating fixtures and fastening including pipe base of appropriated iameter and ball base of 75mm dia above newel post of 75mm diameter etc. complete (Prior approval of sample and brand by Ex.Engineer is necessary before				
	SSR Item Code - 40.08 BDW Page No. 265				
	Spec. No:As directed by Engineer Incharge				
	Ground floor	RMT	6.76	3722.25	25162.41
	First Floor	RMT	49.20	3757.70	184878.84
	Second floor	RMT	6.76	3793.15	25641.69
	Terrace floor	RMT	6.76	3828.60	25881.34
53	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete. (Anti Corossive Paint)				
	SSR Item Code - 41.56 BDV 19 Page No.271				
	Spec. No.:Bd.V.19 Page No. 559				
	Terrace floor	RMT	3.50	1218.24	4263.84
54	Proving and fixing letter box having size 280 mm X 300 mm X 75mm of good quality make, made From Galvanize Steel, Powder coating, Rust Proof with lock and key system including necessary fitting. etc complete				
	Non SSR Item				
	Spec. No.:As directed by Engineer Incharge				
	Ground floor	Number	1.00	1300.00	1300.00
55	Providing and fixing acralic name plate having size 400mm X 50mm with flat number having good quality material including necessary fitting and labour etc.				
	Non SSR Item				
	Spec. No.:As directed by Engineer Incharge				
	Ground floor	Number	15.00	200.00	3000.00
	First Floor	Number	13.00	200.00	2600.00

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	Second Floor	Number	13.00	200.00	2600.00
	TOTAL FOR IRON & CEILING WORK -				1075218.70
56	Providing and fixing corrugated galvanised iron sheets of 0.63 milimetre thickness (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screw and bolts and lead and bitumen washers as per drawing complete. (weight of 5.5 kg per Square metre).				
	SSR Item Code - 38.04 BDR 5 Page No. 233				
	Spec. No.:Bd.R.5 Page No. 453	SQ.M.	14.40	930.05	13392.72
57	Providing and fixing cold rolled steel hollow door frame 105 milimetre x 60 milimetre for any sizes including hold fast hinges, tie members with red oxide and grey paint complete as per Indian Standard Institute specifications and code of practice prescribed including anticorrosive treatment complete.				
	SSR Item Code - 39.49 BDT Page No. 256				
	Spec. No.:As directed by Engineer Incharge				
	Ground floor	RMT	94.00	2114.70	198781.80
	First Floor	RMT	87.40	2134.84	186585.02
	Second Floor	RMT	75.40	2154.98	162485.49
58	Providing and fixing shutter to wall cupboard consisting of Teak Wood styles and rail 25 milimetre thick and 75 milimetre wide with panel insert of 12 milimetre thick particle board with one approved coloured laminated face on one side 1.5 milimetre thick, bonded with phenol formadehyde synthetic resin including lipping beading iron oxidised fixtures and fastening and oil primer coat complete. (Excluding cupboard frame)				
	SSR Item Code - 37.22 BDQ Page No. 232				
	Spec. No.:As directed by Engineer Incharge				
	Ground floor	SQ.M.	95.04	3866.10	367434.14
	First Floor	SQ.M.	103.68	3902.92	404654.75
	Second Floor	SQ.M.	103.68	3939.74	408472.24

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
59	Providing and applying plaster with plaster of paris in 6 milimetre thickness to previously plastered surface in all position including preparing the surface scaffolding etc. complete.				
	SSR Item Code - 32.27 BDL Page No. 210				
	Spec. No.:As directed by Engineer Incharge				
	Ground floor	SQ.M.	869.12	151.05	131280.58
	First Floor	SQ.M.	567.15	152.50	86490.38
	Second Floor	SQ.M.	588.99	153.95	90675.01
60	Providing and fixing black kadappa stone as shelves 25 milimetre thick machine polished, extending the polish upto 20 centimetre width on lowerside, rounding corners, laying in position jointing with bedding cement mortar 1:4 proportion curing etc. complete.				
	SSR Item Code - 33.23 BDM 15 Page No. 215				
	Spec. No.:Bd.M.29 Page No. 391				
	Ground floor	SQ.M.	82.17	1288.35	105863.72
	First Floor	SQ.M.	89.64	1300.55	116581.30
	Second Floor	SQ.M.	89.64	1312.75	117674.91
61	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 milimetre thickness of having a strength of 300 kilogram per square centimetre of approved quality and shape on a bed of crushed sand of 25 to 30 milimetre thick including skirting joints and cleaning etc. complete	SQ.M.	189.00	1224.30	231392.70
62	Providing and laying in situ cement concrete M30 with tremix treatment for 200 millimeter thickness for flooring with groove cutting of 4 millimeter wide and 20 millimeter deep with necessary refilling with bitumen complete.	SQ.M.	24.79	1645.25	40785.75
63	Providing and fixing during laying in Reinforced Cement Concrete Slab rectangular 2 milimetre thick Mild Steel sheet fan hook box of size 180 x 100 milimetre with required depth with holes or notches as required, bottom and top sides of 1.6 milimetre Mild Steel sheet fixed with 3.5 milimetre diameter round headed screws together with 12 milimetre diameter Mild Steel bar bent to shape with hooked ends for fan hook and painting to exposed surface.				
	Ground floor	Number	34.00	416.85	14172.90

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
	First Floor	Number	26.00	420.82	10941.32
	Second Floor	Number	26.00	424.79	11044.54
64	Providing and fixing 90 centimetre x 60 centimetre Granite plate engraving 10 centimetre height letter, figures including painting the letters/ figures with approved colour and shade complete.	Number	1.00	9049.70	9049.70
65	Providing and fixing informatory sign boards in rectangular shape of size 1.20 meter x 0.90 meter made out of 16 guage Aluminum panel bonded with Indian Road Congress Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive/ heat activated adhesive, Indian Road Congress Specified colour retro reflective cutout border and messages having pressure sensitive adhesive having border and messages in Indian Road Congress Specified colour background including Mild Steel angle iron frame of size 35 milimetre x 35 milimetre x 3 milimetre and two Mild Steel angle iron post of size 65 milimetre x 65 milimetre x 6 milimetre, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 centimetre width including galvanised iron fixtures etc. fixing the boards in M-20 concrete block of size 60 centimetre x 60 centimetre x 75 centimetre including	Number	1.00	15912.30	15912.30
66	Providing and applying laying Aggregate plaster in granite/ marble stones, as decorative finish to give granite/ marble like appearance to concrete, brick or block surfaces in all position including preparation of surface smoothly, evenly by racking of joints in case of Brick or block work including backing layer of 12 milimetre thick with cement mortar 1:3 with 2 percent integral cement water proofing compound, roughening for wall keying hardening and drying the surface for a minimum five days gaps including second coat of cement lime mortar into a proportion 1:4 preparing the surface for three coat of marble finish plaster giving a thin coat of white cement and two parts of course calcite powder, applying the mortar with steel float on the surface in proper evenness applying at coat of white cement and lime to set a smooth finish then applying a thin coat of slurry made of white cement and black oxide colour in required proportion by the steel float to get black streaks on the surface and curing the surface for two days including all	SQ.M.	6.00	2973.75	17842.50

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
67	Providing and fixing Ivory colour Orissa Pan of size 580x445x260 milimetre with approved make flush valve including trap, cast iron soil and vent pipe upto outside face of wall including 100 milimetre dia. cast iron plug, bend and necessary pipe connection, etc complete. As directed by Engineer in charge.	Number	1.00	7588.45	7588.45
68	Providing and fixing Ivory european type wall-hung, of size 360 milimetre x 360 milimetre x 575 milimetre with flush valve of approved make including soil pipe, vent pipe upto outside face of wall, 100 milimetre dia cast iron plug bend inlet pipe all fittings, cutting & making good walls, floors, including health faucet etc as directed by Engineer in charge.	Number	36.00	18718.35	673860.60
69	Providing and fixing Crome Plated Two way BIB cock of approved make including necessary sockets/ union nut etc. complete.	Number	36.00	1530.50	55098.00
70	Providing and fixing wall hung Ivory wash basin of size 350x450x165 milimetre with approved make pillar cock, chrome plated Angular stop cock long thread approved make continental including SS bottle trap of approved make having necessary pipe connection up to the outside face of the wall etc complete as directed by Engineer in charge.	Number	36.00	6351.70	228661.20
71	Providing and fixing Oval Type Under Counter Wash Hand Basin of 16 inch x 22 inch size and of special colour shade having Telephonic Black / Colour Granite of 180 milimetre thick fixed on Black Kadappa Framework, including Chromium Plated coupling Bottle-Trap using CERA company or equivalent Oval Type Wash basin Model No. 3448 as per detailed drawing or as directed by Engineer-In-Charge etc. Complete.	Number	2.00	9234.40	18468.80
72	Providing and fixing Crome Plated wall mixer with provision for overhead shower with 115 milimetre long bend pipe and wall flange of approved make including necessary sockets/ union nut etc. complete.	Number	36.00	4970.15	178925.40
73	Providing and fixing Crome Plated BIB cock with wall flange of approved make including necessary sockets/union nut etc. complete.	Number	4.00	1162.30	4649.20
74	Providing and fixing 450 milimetre x 550 milimetre size superior type Belgium mirror with 16 milimetre diameter nickel plated towel rod complete.	Number	39.00	903.20	35224.80

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
75	Providing and fixing stainless steel sink of size 600 x 510 x 200 millimeter of Nirali or equivalent make including coupling, outlet pipe, elbow and other necessary fitting, finishing complete.	Number	1.00	20875.10	20875.10
76	Providing and fixing 75 milimetre diameter stabiliser pipe/ Poly Venyl Chloride soil vent /waste pipe and with necessary fixtuers and fiting such as bends, tees, single junctions slotted vent, clamps complete.	RMT	723.40	636.75	460624.95
77	Providing and fixing 100 milimetre diameter stabiliser pipe/ Poly Venyl Chloride soil vent /waste pipe and with necessary fixtuers and fiting such as bends, tees, single junctions slotted vent, clamps complete.	RMT	354.70	826.60	293195.02
78	Providing and fixing 10 centimeter Poly Venyl Chloride nahani trap with grating complete.	Number	114.00	565.40	64455.60
79	Providing and fixing Poly Venyl Chloride Rain water pipes of 160 milimetre outer diameter and having wall thickness of 2.2 to 2.7 milimetre confirming to Indian Standard 13592-1992 including proper rainwater receiving recess with Poly Venyl Chloride plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25 milimetre to 40milimetre from face of wall a fixing with clips of approved quality and number, filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on Cement Concrete or masonry blocks, including necessary scaffolding and maintenance for 3 years for any leakages or dislocations of pipes. All the Poly Venyl Chloride fittings and additional 2 piece socket clips shall be got approved from engineer in charge complete. (The contractor shall give 3 years	RMT	124.00	1553.55	192640.20
80	Providing and fixing on walls / ceiling / floor 15 milimetre diameter Chlorinated Poly Venyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.	RMT	230.00	279.05	64181.50
81	Providing and fixing on walls / ceiling / floor 20 milimetre diameter Chlorinated Poly Venyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.	RMT	39.15	325.20	12731.58

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
82	Providing and fixing on walls / ceiling / floor 25 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.	RMT	39.15	393.40	15401.61
83	Providing and fixing on walls / ceiling / floor 32 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.	RMT	60.00	452.10	27126.00
84	Providing and fixing on walls / ceiling / floor 40 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.	RMT	85.00	565.40	48059.00
85	Providing and laying in trenches 25 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	RMT	45.00	443.75	19968.75
86	Providing and laying in trenches 32 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	RMT	45.00	502.45	22610.25
87	Providing and laying in trenches 40 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	RMT	68.00	615.75	41871.00
88	Providing and laying in trenches 50 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	RMT	85.00	821.35	69814.75
89	Providing and fixing screw down for 25 milimetre diameter wheeled stop tap of brass including necessary sockets/union nut complete.	Number	6.00	921.00	5526.00

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
90	Providing and fixing screw down for 32 milimetre diameter wheeled stop tap of brass including necessary sockets/union nut complete.	Number	6.00	1029.05	6174.30
91	Providing and fixing screw down for 40 milimetre diameter wheeled stop tap of brass including necessary sockets/union nut complete.	Number	6.00	1228.40	7370.40
92	Providing and fixing screw down for 50 milimetre diameter wheeled stop tap of brass including necessary sockets / union nut complete.	Number	6.00	2090.65	12543.90
93	Providing and fixing High Density Polymer container Syntex or alike one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity between 1000 to 20000	Litre	30000.00	11.55	346500.00
94	Providing and fixing 15 centimetre x 10 centimetre salt glazed stoneware gully trap in cement concrete 1:4:8 out side the building including cast iron grating in the sink, connecting glazed stonewre pipe brick masonry chamber with cast iron lid and cast iron grating for the gully trap.	Number	13.00	1730.70	22499.10
95	Providing and laying concrete pipe of Indian Standard Non Pressure class 2 of 150 milimetre diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	RMT	210.00	555.95	116749.50
96	Providing and laying concrete pipe of Indian Standard Non Pressure class 2 of 225 milimetre diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	RMT	275.00	588.50	161837.50
97	Providing and constructing Brick Masonry Inspection Chamber 60 centimetre x 45 centimetre x 90 centimetre including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round Glazed Stone Ware pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with Reinforced Cement Concrete cover medium duty 140 kilogram with frame etc. complete.	Number	10.00	9980.05	99800.50

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
98	Providing and constructing Brick Masonry Inspection Chamber 90 centimetre x 45 centimetre x 90 centimetre including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round Glazed Stone Ware pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with Reinforced Cement Concrete cover medium duty 140 kilogram with frame etc. complete.	Number	48.00	11872.00	569856.00
99	Providing and constructing Brick Masonry inspection trap Chamber 90 centimetre x 45 centimetre including 1:4:8 cement concrete foundation, 1:2:4 cement concrete channels/ half round glazed stoneware pipe channel, salt glazed stoneware intercepting trap with rodding pipe set in 1:4:8 cement concrete block, brick masonry plastering inside and outside, fixed in cement concrete with Reinforced cement concrete cover medium duty 140 kilogram etc. complete.	Number	1.00	12403.85	12403.85
100	Providing soak pit of size 120 centimetre x 120 centimetre x 120 centimetre including excavating and filling with brick-bats.	Number	4.00	3096.65	12386.60
101	RWH - Shallow Percolation Pit providing, constructing 2.0 meter deep shallow depth percolation pit comprising of 1.0m dia pre-cast rainforced cement concrete rings, 300 milimetre thick side filling around outside of rainforced cement concrete rings (annular space) with 40 milimetre size boulders including filling of percolation pit up to 0.5meter depth (from bottom up) with 25-75 milimetre clean washed gravels followed by 0.5 meter depth of 10-25 milimetre of clean washed stones followed by 0.5 meter of washed river fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) including netlon mesh between each gravel/fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) media layer including covering with rainforced cement concrete slab, manhole frame & cover, poly vinyl chloride rungs etc. including arrangement for inlet & outlet pipe, excavation & backfilling as shown in the drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels. All material should be of approved make. All works complete as per the drawing, technical specification and	Number	1.00	54023.50	54023.50
102	Providing and fixing reinforced cement concrete Medium duty (100 kilogram) cover of size 60 centimeter x 45centimeter with frame over inspection chamber	Number	3.00	3750.20	11250.60
		Total of plumbing and mislenious			6736467.28

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
103	Royalty Charges	CU.M.	278.18	211.94	58957.47
104	Surcharge 2% on Royalty Charges	CU.M.	278.18	4.24	1179.48
	Conducting prescribed tests for Quality Control.				
105	Testing Charges for conducting BASIC TEST OF CEMENT.Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	Number	1.00	3770.00	3770.00
106	Testing Charges for conducting BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	Number	1.00	2600.00	2600.00
107	Testing Charges for conducting BASIC TEST OF AGGREGATE. Sieve Analysis test.	Number	15.00	690.00	10350.00
108	Testing Charges for conducting BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	Number	15.00	850.00	12750.00
109	Testing Charges for conducting FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	Number	30.00	1380.00	41400.00
110	Testing Charges for conducting BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks) test.	Number	5.00	2175.00	10875.00
111	Testing Charges for conducting CERAMIC TILES / VITRIFIED TILES Water Absorption, Moduls of Rapture (Set of 6 Tiles) test.	Number	20.00	1595.00	31900.00
112	Testing Charges for conducting CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	Number	60.00	690.00	41400.00
113	Testing Charges for conducting Concrete Mix Design (With all Tests on basic materials).	Number	1.00	13755.00	13755.00
114	Testing Charges for conducting MORTAR Compressive Strength (Set of 3 Cubes) test.	Number	10.00	690.00	6900.00
115	Testing Charges for conducting SOIL / MURUM Liquid limit & plastic Limit test.	Number	3.00	1170.00	3510.00
116	Testing Charges for conducting SOIL / MURUM Compaction Test (Proctor Density).	Number	3.00	1860.00	5580.00
117	Testing Charges for conducting SOIL / MURUM C.B.R. Test (Lab) Excluding compaction test.	Number	1.00	7000.00	7000.00
118	Testing Charges for conducting WOOD Density, Moisture Content test.	Number	1.00	1060.00	1060.00

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (Rs.)
119	Testing Charges for conducting FLUSH DOOR Knife Test, Adhesion Test, End Immersion Test.	Number	3.00	2850.00	8550.00
120	Testing Charges for conducting ALUMINIUM SECTION Test for Thickness, Mass Per Running meter.	Number	6.00	750.00	4500.00
121	Testing Charges for conducting STEEL BAR TESTING Upto 16 mm (Set of 3	Number	20.00	1500.00	30000.00
122	Testing Charges for conducting STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress).	Number	20.00	1595.00	31900.00
123	Testing Charges for conducting CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	Number	1.00	2495.00	2495.00
124	Testing Charges for Natural stone. Determination of Water Absorption, Specific Gravity test.	Number	9.00	1450.00	13050.00
				Total of Tests	283345.00
				TOTAL FOR BUILDING	65546390.05

Name of Work:-Construction of SC / ST Girls hostel Building at Government College of Engineering Karad. Tal. Karad Dist. Satara				
SCHEDULE C				
Memorandum showing the item of work to be carried out by the contractor				
Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
A	Site Cleaning			
1	Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.	21.34	157	As directed by Engineer in charge.
B	EXCAVATION AND FILLING			
2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. By Mechanical Means	21.02 Bd.A.1	153	The useful excavated materials shall be utilised as directed by the Engineer In Charge.
3	Excavation for foundation in hard murum including removing the excavated materia up to distance of 50metres beyond the building area and stacking and spreading as directed , dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift upto 3.0 m) By Mechanical Means	21.06 Bd.A.2	153	The useful excavated materials shall be utilised as directed by the Engineer In Charge.
4	Excavation for foundation in hard murum and boulders including removing the excavated material upto a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc.complete. (Lift from 1.5 m to 3.0 m) By Mechanical Means	21.12 Bd.A.3 Page No. 259	154	The useful excavated materials shall be utilised as directed by the Engineer In Charge.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
5	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper.As directed by Engineer in charge	21.22 BDW	155	<p>1) The work shall be carried out as per direction of Engineer in charge.</p> <p>2) The amount of 10% of the total cost of the completed item shall be retained as retention money for the full guarantee period of 10 years.</p> <p>3) If the use of any chemical is found banned by the Government, proper substitute chemical will be allowed to be used as per manufacturers code of practice. The chemical shall be got approved from Engineer in charge.</p> <p>4) The recoupment of the damages if any found and communicated to the contractor in writing is not made good with in two weeks from the date of receipt or of such communication by him, the same shall be carried out departmently on his behalf and cost thereof shall be met with from sum withheld as aforesaid. In case the sum recoverable from the contractor is more than that of the sum withheld amountm, the difference shall stand recoverable as arrears of land revenue from the contractor under Clause 20 of original contract.</p> <p>5) The mode of measurements shall be on Square Metre basis. As directed by Engineer in charge.</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
6	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) treatment by treating the back fillin immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 per centofclorophyrifos per square metre of vertical surface area covering 10 years guarantee on bond paper.	BDW-21.23	155	<p>1) The work shall be carried out as per direction of Engineer in charge.</p> <p>2) The amount of 10% of the total cost of the completed item shall be retained as retention money for the full guarantee period of 10 years.</p> <p>3) If the use of any chemical is found banned by the Government, proper substitute chemical will be allowed to be used as per manufacturers code of practice. The chemical shall be got approved from Engineer in charge.</p> <p>4) The recoupment of the damages if any found and communicated to the contractor in writing is not made good with in two weeks from the date of receipt or of such communication by him, the same shall be carried out departmently on his behalf and cost thereof shall be met with from sum withheld as aforesaid. In case the sum recoverable from the contractor is more than that of the sum withheld amountm, the difference shall stand recoverable as arrears of land revenue from the contractor under Clause 20 of original contract.</p> <p>5) The mode of measurements shall be on Square Metre basis. As directed by Engineer in charge.</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
7	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per squaremetre of surface area covering ten year sguarantee on bond paper.	BDW-21.24	156	1) The work shall be carried out as per direction of Engineer in charge. 2) The amount of 10% of the total cost of the completed item shall be retained as retention money for the full guarantee period of 10 years. 3) If the use of any chemical is found banned by the Government, proper substitute chemical will be allowed to be used as per manufacturers code of practice. The chemical shall be got approved from Engineer in charge. 4) The recoupment of the damages if any found and communicated to the contractor in writing is not made good with in two weeks from the date of receipt or of such communication by him, the same shall be carried out departmently on his behalf and cost thereof shall be met with from sum withheld as aforesaid. In case the sum recoverable from the contractor is more than that of the sum withheld amountm, the difference shall stand recoverable as arrears of land revenue from the contractor under Clause 20 of original contract. 5) The mode of measurements shall be on Square Metre basis. As directed by Engineer in charge.
8	Filling in plinth and floors with approved excavated material in 15cm. To 20cm. layers including watering and compacting etc. complete.	BDA10 - 21.36	157	As directed by Engineer in charge.
9	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	BDA10 - 21.37	157	As directed by Engineer in charge.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
C	PLAN CEMENT CONCRETE			
10	Providing and laying Cast in situ / Ready Mix cement concrete in M15 of trap / granite / quartzite / gneiss metal for steps including steel centering, formwork, laying / pumping, compacting, roughening the m if special finish is to be provided, finishing uneven and honey combed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honey combed surface, only. Newly laid concretes shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd.E.2 24.04	175	<p>1. The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design, if the cement consumption is less than that shown in item, the rate will be reduced accordingly. If the rate as per mix design for cement consumption is more than that as per item, the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work, cement from each consignment shall be got tested. If the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest amendment.</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory. It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing.</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
D	REINFORCED CEMENT CONCRETE			
11	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. work in foundations like raft , strip foundations , grillage and footings of R.C.C. columns and steel stanchions etc .including bailing out water, Steel centering, formwork, coverblocks, laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, withfully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-3 25.13	178	<p>1.The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item,therate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work,cement form each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
12	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying / pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-5 - 25.33	180	<p>1. The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item, the rate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work, cement form each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
13	Providing and laying Cast in situ / Ready Mix concrete in M-25 of trap / granite / quartzite / gneiss metal for R.C.C.beams and lintels as per detailed designs and drawings or as directed including steel centering , formwork, coverblocks, laying / pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc.complete.With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-6-25.52	181	<p>1.The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item,therate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work,cement form each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
14	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, coverblocks, laying / pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc.complete, (Excluding reinforcement and structural steel).with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Panmixer) etc.complete.With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-8 - 25.72	182	<p>1.The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item,therate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work,cement from each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
15	Providing and laying Cast in situ / Ready Mix cement concrete in M-25 of trap / quartzite / granite / gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood / steel formwork, steel props, laying / pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block). (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-13 - 26.26	186	<p>1. The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item, the rate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work, cement from each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest amendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
16	Providing and laying Cast in situ / Ready Mix cement concrete in M-25 of trap / granite / quartzite / gneiss metal for R.C.C. pardi of required thickness including steel centering , formwork, cover blocks, laying / pumping, compacting and roughening the m if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc.complete.With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-11-26.19	185	<p>1.The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item,therate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work,cement form each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
17	Providing and laying Cast in situ / Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying / pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Bd/F-9-26.07	184	<p>1.The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item,therate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work,cement form each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
18	Providing and laying Cast in situ /Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, coverblocks, laying/ pumping, compacting, curing, finishing and roughening them if special finishistobe provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer /concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Bd/F-12-26.23	185	<p>1.The appropriate mix design shall be got prepared from the approved government laboratory well in advance and got approved from Engineer in charge before starting the work.</p> <p>2. Cement from the same stock sent for design shall be used for concreting work.</p> <p>3. The rate of consumption of cement in mix design are considered for the work as per general practice in actual design ,if the cement consumption is less than that shown in item,therate will be reduced accordingly .If the rate as per mix design for cement consumption is more than that as per item ,the extra cement will have to be brought by the contractor at his own cost.</p> <p>4. Before concreting work,cement form each consignment shall be got tested .if the strength of fresh cement available in stock and concreting work shall be done accordingly to modified mix design.</p> <p>5. The minimum strength of reinforced cement concrete to ensure durability shall as per Indian standard as per IS 456-2000 with latest ammendment .</p> <p>6. For each consignment of cement a sample should be got tested as per norms and frequency of Vigilance and Quality Control circle, laboratory..It will be entire responsibility of contractor for testing of cement and no extra payment will be made against these testing charges</p>
19	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	Bd-F-17 - 26.33	188	<p>1.As per Indian standard 1786/1985 with latest amendments.</p> <p>2.Various diameters of TMT Fe-500 bars brought on site for the work shall be got tested categorywise and lotwise as directed by the Engineer in Charge .</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
E	BRICKWORK / BLOCKWORK			
20	Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.	Bd G - 27.01	197	<p>1. The bricks shall be got tested before use the Government laboratory at the rate of 1 batch of 15 bricks for every 50,000 bricks or part thereof at contractors cost for the following:</p> <p>a) Crushing Strength : i) Dry Conditions : 5 Bricks, ii) Wet condition : 5 bricks, b) Water Absorption 5 bricks</p> <p>2. In addition bricks shall be tested for size, shape and soundness</p> <p>3. The proportion of cement mortar shall be 1:6</p> <p>4. Minimum two drums of water shall be provided to masons for soaking of bricks at each place where masons are working</p> <p>5. For mixing of mortar stell forms of required size only shall be use. For mixing of mortar steel trough or back platform shall be used.</p> <p>6. The brick work shall be cured for a minimum period of 14 days.</p> <p>7. The joints on both faces shall be raked to a depth of not less than the thickness of joints for affording good bond for palster.</p> <p>8. Holdfast for door or window frames shall be embedded in cast in situ 1:2:4 cement concrete block of required size without any etc.</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
21	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Bd G - 27.15	198	<p>1. The bricks shall be got tested before use the Government laboratory at the rate of 1 batch of 15 bricks for every 50,000 bricks or part thereof at contractors cost for the following:</p> <p>a) Crushing Strength : i) Dry Conditions : 5 Bricks, ii) Wet condition : 5 bricks, b) Water Absorption 5 bricks</p> <p>2. In addition bricks shall be tested for size, shape and soundness</p> <p>3. The proportion of cement mortar shall be 1:6</p> <p>4. Minimum two drums of water shall be provided to masons for soaking of bricks at each place where masons are working</p> <p>5. For mixing of mortar stell forms of required size only shall be use. For mixing of mortar steel trough or back platform shall be used.</p> <p>6. The brick work shall be cured for a minimum period of 14 days.</p> <p>7. The joints on both faces shall be raked to a depth of not less than the thickness of joints for affording good bond for palster.</p> <p>8. Holdfast for door or window frames shall be embedded in cast in situ 1:2:4 cement concrete block of required size without any etc.</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
22	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Bd G - 27.16	198	<p>1. The bricks shall be got tested before use the Government laboratory at the rate of 1 batch of 15 bricks for every 50,000 bricks or part thereof at contractors cost for the following:</p> <p>a) Crushing Strength : i) Dry Conditions : 5 Bricks, ii) Wet condition : 5 bricks, b) Water Absorption 5 bricks</p> <p>2. In addition bricks shall be tested for size, shape and soundness</p> <p>3. The proportion of cement mortar shall be 1:6</p> <p>4. Minimum two drums of water shall be provided to masons for soaking of bricks at each place where masons are working</p> <p>5. For mixing of mortar steel forms of required size only shall be use. For mixing of mortar steel trough or back platform shall be used.</p> <p>6. The brick work shall be cured for a minimum period of 14 days.</p> <p>7. The joints on both faces shall be raked to a depth of not less than the thickness of joints for affording good bond for palster.</p> <p>8. Holdfast for door or window frames shall be embedded in cast in situ 1:2:4 cement concrete block of required size without any etc.</p>
F	WATERPROOFING WORK			
23	Providing and applying water proofing treatment using acrylic polymer modified cement based water proofing coating with fibre glass mesh mixing at the rate of powder to liquid (2:1) by weight covering 9 to 10 sqm /kg with two coat using approved chemicals for masonry and concrete surface by brush covering 7 years guarantee on Stamp	31.09 - BDJ	205	As directed by Engineer in charge.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
24	Providing waterproofing in W.C. and bath including brickbat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @1 Kilogram /per bag of cement laying brickbat coba of required thickness in cm 1:5 with waterproofing compound 1Kilogram/ bag of cement grouting and finishing the top layer with 20 mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1Kilogram/ per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete.	31.26 BDJ	208	As directed by Engineer in charge.
G	PLASTERING AND POINTING			
25	Providing sand faced plaster externally in cement mortar using approved screeneds and,in all positions including base coat of 15mm thick in cement mortar 1:4 using waterproofing compound at 1kg per cement bag curing the same for not less than 2days and keeping the surface of the base coat rough to receive the sandfaced treatment 6 to 8mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	BDL 7 - 32.11	209	1. The suface to be plastered shall be first cleaned and thoroughly wetted for 24 hours and got checked form Engineer in Charge before starting the new plaster. 2. Item includes roughening of all internal and external juncioins corners, jambs etc. as directed by the Engineer in Charge. 3. Finisheing shall be plain and in line, level and plumb. 4. Curing shall be done by sprinkling water on the surface for minimum period of fourteen days.
26	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	BDL 4A	209	1. The suface to be plastered shall be first cleaned and thoroughly wetted for 24 hours and got checked form Engineer in Charge before starting the new plaster. 2. Item includes roughening of all internal and external juncioins corners, jambs etc. as directed by the Engineer in Charge. 3. Finisheing shall be plain and in line, level and plumb. 4. Curing shall be done by sprinkling water on the surface for minimum period of fourteen days.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
27	Providing and fixing chicken mesh of 22 gauge,with about 30cm.width at the junction of R.C.C members and brickwork, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	BDL - 32.26	210	As directed by Engineer in charge.
28	Providing and applying Texture plaster with finishing with texture material of approved make in 3 to 4 millimeter thickness on previously plastered surface,including Plaster Groove 6mm thickness or Tape Grooves 35 to 45 mm thickness or as required,in all position including preparing the surface, scaffolding etc. complete.	BDL - 32.32	211	As directed by Engineer in charge.
29	Providing waterproof plaster in W.C. and bath 12 mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproof ing compound at the rate of 1kg. per bag of cement of approved make and manufacturer and curing etc. complete. (Excluding Tiles) (As directed by Engineer in Charge)	BDJ-31.06	205	As directed by Engineer in charge.
30	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete.	BDL - 32.34	212	As directed by Engineer in charge.
H	FLOORING AND DADO			
31	Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain / diamond pattern on bed of 1:6 C.M. including cement float,filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	BDM 3B - 33.06	213	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
32	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25mm to 30mm thick fixed on base on plaster of cement mortar 1:4 including cement float, filling joints with cement slurry, curing rubbing, polishing and cleaning complete.	33.81 - BDM	221	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
33	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	BDM 22 - 33.18	215	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
34	Providing and laying vitrified mirror / glossy finish tiles decorative type having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to I S. 15622 -2006 (group B1 a) of approved make , shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float , filling joints, curing and clearing etc. complete.	33.40 - BDM 12	217	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
35	Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to I S. 15622- 2006 (group B1 a) of approved make , shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including with spacer or without spacer , neat cement float , filling joints, curing and clearing etc. complete	33.41 - BDM 12	217	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
36	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming I S 15622-2006 (Group B 1 a) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float , filling joints, curing and cleaning etc. complete.	33.42 - BDM 12	217	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
37	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS.15622-2006 (Group B 1a) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	33.43 - BDM 12	217	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
38	Providing and constructing granite kitchen platform with fixing of stainless steels in k 600 mm x 450 mm size as per detailed drawing including vertical both side polished kadappah stone 25 to 30 mm thick supports with kadappah top 35 to 40 mm thick and polished granite 16 to 20 mm top with side strips of granite at front and both sides of platform raised with two vertical granite supports 15 cm height and top granite of 75 x 40 cm including cutting, opening for sink of required size in kadappah as well as granite etc. complete. (Platform top size 5.00 m x 0.60 m and height is 0.75 m)	41.78-BDV	273	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
39	Providing and Fixing Processed Stone Cladding on wall surface/ plywood surface. RCC pardi/ Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRC admixtures, Colour pigments, Fiber upto thick of 230mm/ 25mm including scaffolding, fixing of screw, etc. (As directed by Engineer in Charge	51.19	409	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
I	PAINTING			
40	Providing and applying priming coat on concrete / masonry / Asbestos Cement plastered surfaces including scaffolding if necessary , preparing the surface by thoroughly cleaning oil , grease , dirt and other foreign matter and sand papering as required etc. complete.	35.21 - BDO 8E	225	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
41	Providing and applying interior wall finish luster of Asian/ Berger/ Nerolac/ Dulux Paints or equivalent make on internal wall surface as detailed below Scrapping the surface with emery paper and wipe clean. Applying Asian/ Berger/ Nerolac/ Duuex Paints or equivalent wall primer with brush with mineral turpentine with brush 8 to 10% and oil 15 to 20% with roller and allowing to dry for a period 6 to 8 hours. Applying Asian/ Berger/ Nerolac/ Dulex Paints or equivalent Acrylic wall putty with appropriate proportion of water allowing to dry for period 4 to 6 hours. Scrapping with Emery paper 180 and wipe clean. Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent wall primer with brush with mineral turpentine 8 to 10% and oil 15 to 20% with roller Scrapping Emery paper 320 and wipe clean, Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent interior wall finish luster 1st coat with brush/ rubber/ spray with mineral turpentine 7 to 9% and Oil with roller 19 to 21% After 8 hours of activity Applying 2nd coat of Asian / Berger / Nerolac / Dulux Paints or equivalent interior wall finish Lustre with mineral turpentine 7 to 9 % with brush and Oil with roller 19 to 21% after allowing dry for the period of 6 to 8 hours activity (With prior approval of S.E.).	36.20 - BDP	228	<p>1. The work shall be carried out as directed by Engineer in charge.</p> <p>2. Samples shall be got approved from the competent authority before execution of this item.</p>

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
42	Providing and applying two coats Apex Ultima Puranature Anti Pollution Or equivalent approved brand, paint should decomposes organic substances and inorganic gases(NOx, VOC's, CO, SOx, formaldehydes, etc.) in presence of natural or artificial light. It contains Graphene and nanoparticles of ium oxide. and Absorbs CO2 (4.8 kg/15 l). plaster crack should be filled by Acrylic base Crack seal/Textured Crack filler, Paint has to applied on one coat of Apex Ultima Puranature Anti- Pollution Primer or Equivalent. Warranty Should be given by the Manufaturer The work should be done by the Manufacturer Recommended applicator and he should be able to furnish stage wise onsite technical reports from the concerned	35.25 - BDO	225	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the completent authority before execution of this item.
J	DOOR WINDOWS (FRAMES AND SHUTTERS)			
43	Providing and laying telephone black / Amba White / Cadbury brown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame / dado / window boxing etc.On C.M.1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete.	33.68 - BDM	220	as directed by engineer in charge
44	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed , all necessary beads , mouldings and lipping , wrought iron hold fasts , chromium plated fixtures and fastenings , with brass mortise lock , chromium plated handles on both sides , and finishing with French Polish etc. complete.	39.09 - BDT 34	246	as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
45	Providing and fixing Country cut teak wood double or single leaf second class fully panelled door shutter with 35mm thick style and rail with 25 mm thick panels with Eye hole as per detailed drawings. Excluding the door frame 60mm x 100mm stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats. (Excluding the door frame)	39.04 - BDT 34	245	as directed by engineer in charge
46	Providing and fixing in position (asper 1868/ 1982) Aluminium sliding window of three tracks with rectangular pipe 95x38. 10x0.90mm at weight 0.637 Kilogram/ One Running Metre. with window frame bottom track section 92x31.75x1.30 mm at weight 1.070Kilogram/ One Running Metre.. Top and side track section 92x 31.75 x1.30mm at weight 0.933Kilogram /Running metre. The shutter should be of bearing bottom 40x18x1.25mm at weight 0.417 Kilogram/One Running Metre. Interlocking section 40x18x1.10 mm at weight 0.469Kilogram/ Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running sper detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and f astening ssuch as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jailwith all required screws and nuts etc, complete. With powder coating without box	39.44 - BDT	253	as directed by engineer in charge
47	Providing and fixing in position powder coated aluminium louvered windows ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 milimetre x 1.22 milimetre box type, 5 milimetre thick sheet glass louvers, of approved quality complete.	39.68 - BDT	261	1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the completent authority before execution of this item.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
48	<p>Providing and Fixing 30 MM thick BOTH SIDE PRELAMINATED SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of M.S tubes of 19 guage thickness and,size19x19 mm for styles and 15x15 mm for the top and bottom rails, M.S frames hall have a coat of metel primer of approved make and manufacture. M.S frame shall be covered with heat mouled PVC'C'channel made from 5mm (+/0.25) thick prelaminated sheet of density 600kg/cbm,of size 30 mm thickness 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45° angle on either side forming stiles;and 5mm thick,95 mm wide PVC sheet out of which 75mm shall be falt and 20mm shall be tapered in 45 on the inner side toform top and bottom rail and 115 mm wide PVC sheet out of which 75mm shall be falt and 20 mm shall be tapered on both sides to form lockrail.Top,bottom and lockrail shall be provided either side of the panel.An additional 5mm (+/0.25) thick PVC strip of 20mm width is to be stuck on the bottom side of the'c'channel prelaminated paneling of 5mm (+/0.25) thick PVC sheet to be fitted inside the M.S.frame welded / sealed to the styles and rails with 5mm (+/0.25)x30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc,10mm thickness (5mm(+/0.25)x2nos) 20mm wide cross PVC sheet as gap insert for the rail and bottomrail.Door to be fixed toframes with 3nos M.S.powder coated but hinges of size100mm x 25MM x 2mm using 32mm long steel screws drilled suitable top as through both the walls of the M.S tube.Other hardwares should be fixed with 19 x 6 mm size steel screws including fixture fasting.Complete as per direction of engineer in charge.</p>	39.47 - BDT	255	as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
49	Providing and fixing collapsible steel gate in one/ two leaves with hot rolled vertical channels of 18 x 9 x 3 milimetre minimum size, crossings of mild steel flats of size 18 x 5 milimetre T or E section for runner of minimum 40 x 6 milimetre size for flange, mild steel flat for top runner of minimum size 40 x 12 milimetre with roller wheels confirming to grade F.G. 150 fitted with snap headed rivets of minimum size 6 milimetre max. spacing of vertical channels be 100 milimetre enclosed gate position and clear space of 150 milimetre between two sets of crossings with hold fasts, stoppers, spaces, handles, locking arrangement and one coat of red lead primer & oil painting etc. complete. (I.S. 10521-1983).	item no-39.26 BDT-57	249	as directed by engineer in charge
50	Providing & fixing openable doors for kitchen otta using ply for structure 18 mm thick with handles and all interior surface should be finished with 0.8 mm thk. & all exterior surface should be finished with 1.0 mm thk. Including frame and other fixtures & fastenings or as per detailed drawing & design etc. complete.	Spec. No.:As directed by Engineer incharge.		1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
K	IRON AND CEILING WORK			
51	Providing and fixing mild steel grill work for windows , ventilators etc. 20 kg / sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.	40.01 - BDU 1	264	as directed by engineer in charge
52	Providing and Fixing mat finish stainless steel (of 302 grade) railing with top pipe of 50mm dia. and vertical pipe of 38mm dia at 0.60mc/ cor as required and horizontal pipes of 25mm dia in three rows, all pipes of 2mm thick including buffing, fabricating fixtures and fastening including pipe base of appropriated iameter and ball base of 75mm dia above newel post of 75mm diameter etc. complete (Prior approval of sample and brand by Ex.Engineer is necessary before use)	40.08 - BDU 1	265	as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
53	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete. (Anti Corossive Paint)	41.56 BDV	271	as directed by engineer in charge
54	Proving and fixing letter box having size 280 mm X 300 mm X 75mm of good quality make, made From Galvanize Steel, Powder coating , Rust Proof with lock and key system including necessary fitting. etc complete			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the completent authority before execution of this item.
55	Providing and fixing acralic name plate having size 400mm X 50mm with flat number having good quality material including necessary fitting and labour etc. complete			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the completent authority before execution of this item.
56	Providing and fixing corrugated galvanised iron sheets of 0.63 milimetre thickness (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screw and bolts and lead and bitumen washers as per drawing complete. (weight of 5.5 kg per Square metre).			as directed by engineer in charge
57	Providing and fixing cold rolled steel hollow door frame 105 milimetre x 60 milimetre for any sizes including hold fast hinges, tie members with red oxide and grey paint complete as per Indian Standard Institute specifications and code of practice prescribed including anticorrosive treatment complete.	Item no. 39.49, BDT	256	as directed by engineer in charge
58	Providing and fixing shutter to wall cupboard consisting of Teak Wood styles and rail 25 milimetre thick and 75 milimetre wide with panel insert of 12 milimetre thick particle board with one approved coloured laminated face on one side 1.5 milimetre thick, bonded with phenol formadehyde synthetic resin including lipping beading iron oxidised fixtures and fastening and oil primer coat complete. (Excluding cupboard frame)	Item no. 37.22, BDQ	232	as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
59	Providing and applying plaster with plaster of paris in 6 milimetre thickness to previously plastered surface in all position including preparing the surface scaffolding etc. complete.			as directed by engineer in charge
60	Providing and fixing black kadappa stone as shelves 25 milimetre thick machine polished, extending the polish upto 20 centimetre width on lowerside, rounding corners, laying in position jointing with bedding cement mortar 1:4 proportion curing etc. complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
61	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 milimetre thickness of having a strength of 300 kilogram per square centimetre of approved quality and shape on a bed of crushed sand of 25 to 30 milimetre thick including skirting joints and cleaning etc. complete	33.52 BDM	218	As directed by Engineer in charge. The heavy duty interlocked concrete block shall be tested for required strength and quality from the Quality Control Laboratory in required frequency. Samples shall be got approved from the competent authority before execution of this item.
62	Providing and laying in situ cement concrete M30 with tremix treatment for 200 millimeter thickness for flooring with groove cutting of 4 millimeter wide and 20 millimeter deep with necessary refilling with bitumen complete.			as directed by engineer in charge
63	Providing and fixing during laying in Reinforced Cement Concrete Slab rectangular 2 milimetre thick Mild Steel sheet fan hook box of size 180 x 100 milimetre with required depth with holes or notches as required, bottom and top sides of 1.6 milimetre Mild Steel sheet fixed with 3.5 milimetre diameter round headed screws together with 12 milimetre diameter Mild Steel bar bent to shape with hooked ends for fan hook and painting to exposed surface.	Item no. 26.68 BDF	196	as directed by engineer in charge
64	Providing and fixing 90 centimetre x 60 centimetre Granite plate engraving 10 centimetre height letter, figures including painting the letters/ figures with approved colour and shade complete.			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
65	Providing and fixing informatory sign boards in rectangular shape of size 1.20 meter x 0.90 meter made out of 16 guage Aluminum panel bonded with Indian Road Congress Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive/ heat activated adhesive, Indian Road Congress Specified colour retro reflective cutout border and messages having pressure sensitive adhesive having border and messages in Indian Road Congress Specified colour background including Mild Steel angle iron frame of size 35 milimetre x 35 milimetre x 3 milimetre and two Mild Steel angle iron post of size 65 milimetre x 65 milimetre x 6 milimetre, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 centimetre width including galvanised iron fixtures etc. fixing the boards in M- 20 concrete block of size 60 centimetre x 60 centimetre x 75 centimetre including transportation etc. complete.			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
66	Providing and applying laying Aggregate plaster in granite/ marble stones, as decorative finish to give granite/ marble like appearance to concrete, brick or block surfaces in all position including preparation of surface smoothly, evenly by racking of joints in case of Brick or block work including backing layer of 12 milimetre thick with cement mortar 1:3 with 2 percent integral cement water proofing compound, roughening for wall keying hardening and drying the surface for a minimum five days gaps including second coat of cement lime mortar into a proportion 1:4 preparing the surface for three coat of marble finish plaster giving a thin coat of white cement and two parts of course calcite powder, applying the mortar with steel float on the surface in proper evenness applying at coat of white cement and lime to set a smooth finish then applying a thin coat of slurry made of white cement and black oxide colour in required proportion by the steel float to get black streaks on the surface and curing the surface for two days including all materials and labour etc. complete.			as directed by engineer in charge
67	Providing and fixing Ivory colour Orissa Pan of size 580x445x260 milimetre with approved make flush valve including trap, cast iron soil and vent pipe upto outside face of wall including 100 milimetre dia. cast iron plug, bend and necessary pipe connection, etc complete. As directed by Engineer in charge.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
68	Providing and fixing Ivory european type wall-hung, of size 360 milimetre x 360 milimetre x 575 milimetre with flush valve of approved make including soil pipe, vent pipe upto outside face of wall, 100 milimetre dia cast iron plug bend inlet pipe all fittings, cutting & making good walls, floors, including health faucet etc as directed by Engineer in charge.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
69	Providing and fixing Chrome Plated Two way BIB cock of approved make including necessary sockets/ union nut etc. complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
70	Providing and fixing wall hung Ivory wash basin of size 350x450x165 milimetre with approved make pillar cock, chrome plated Angular stop cock long thread approved make continental including SS bottle trap of approved make having necessary pipe connection up to the outside face of the wall etc complete as directed by Engineer in charge.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
71	Providing and fixing Oval Type Under Counter Wash Hand Basin of 16 inch x 22 inch size and of special colour shade having Telephonic Black / Colour Granite of 180 milimetre thick fixed on Black Kadappa Framework, including Chromium Plated coupling Bottle-Trap using CERA company or equivalent Oval Type Wash basin Model No. 3448 as per detailed drawing or as directed by Engineer-In-Charge etc. Complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
72	Providing and fixing Chrome Plated wall mixer with provision for overhead shower with 115 milimetre long bend pipe and wall flange of approved make including necessary sockets/ union nut etc. complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
73	Providing and fixing Chrome Plated BIB cock with wall flange of approved make including necessary sockets/union nut etc. complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
74	Providing and fixing 450 milimetre x 550 milimetre size superior type Belgium mirror with 16 milimetre diameter nickel plated towel rod complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
75	Providing and fixing stainless steel sink of size 600 x 510 x 200 millimeter of Nirali or equivalent make including coupling, outlet pipe, elbow and other necessary fitting, finishing complete.			1. The work shall be carried out as directed by Engineer in charge. 2. Samples shall be got approved from the competent authority before execution of this item.
76	Providing and fixing 75 millimetre diameter stabiliser pipe /Poly Vinyl Chloride soil vent /waste pipe and with necessary fixturs and fitting such as bends, tees, single junctions slotted vent, clamps complete.			1. The work shall be carried out as directed by Engineer in charge.
77	Providing and fixing 100 millimetre diameter stabiliser pipe /Poly Vinyl Chloride soil vent /waste pipe and with necessary fixturs and fitting such as bends, tees, single junctions slotted vent, clamps complete.			1. The work shall be carried out as directed by Engineer in charge. m.
78	Providing and fixing 10 centimeter Poly Vinyl Chloride nahani trap with grating complete.			1. The work shall be carried out as directed by Engineer in charge.
79	Providing and fixing Poly Vinyl Chloride Rain water pipes of 160 millimetre outer diameter and having wall thickness of 2.2 to 2.7 millimetre confirming to Indian Standard 13592-1992 including proper rainwater receiving recess with Poly Vinyl Chloride plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25 millimetre to 40millimetre from face of wall a fixing with clips of approved quality and number, filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on Cement Concrete or masonry blocks, including necessary scaffolding and maintenance for 3 years for any leakages or dislocations of pipes. All the Poly Vinyl Chloride fittings and additional 2 piece socket clips shall be got approved from engineer in charge complete. (The contractor shall give 3 years guarantee bond for payment).			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
80	Providing and fixing on walls / ceiling / floor 15 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.			as directed by engineer in charge
81	Providing and fixing on walls / ceiling / floor 20 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.			as directed by engineer in charge
82	Providing and fixing on walls / ceiling / floor 25 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.			as directed by engineer in charge
83	Providing and fixing on walls / ceiling / floor 32 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.			as directed by engineer in charge
84	Providing and fixing on walls / ceiling / floor 40 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary fittings, remaking good the demolished portion. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed complete.			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
85	Providing and laying in trenches 25 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.			as directed by engineer in charge
86	Providing and laying in trenches 32 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.			as directed by engineer in charge
87	Providing and laying in trenches 40 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.			as directed by engineer in charge
88	Providing and laying in trenches 50 milimetre diameter Chlorinated Poly Vinyl Chloride pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.			as directed by engineer in charge
89	Providing and fixing screw down for 25 milimetre diameter wheeled stop tap of brass including necessary sockets/union nut complete.			as directed by engineer in charge
90	Providing and fixing screw down for 32 milimetre diameter wheeled stop tap of brass including necessary sockets/union nut complete.			as directed by engineer in charge
91	Providing and fixing screw down for 40 milimetre diameter wheeled stop tap of brass including necessary sockets/union nut complete.			as directed by engineer in charge
92	Providing and fixing screw down for 50 milimetre diameter wheeled stop tap of brass including necessary sockets / union nut complete.			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
93	Providing and fixing High Density Polymer container Syntex or alike one piece moulded water tank made out of high density polythylene and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity between 1000 to 20000 liters.			as directed by engineer in charge
94	Providing and fixing 15 centimetre x 10 centimetre salt glazed stoneware gully trap in cement concrete 1:4:8 outside the building including cast iron grating in the sink, connecting glazed stoneware pipe brick masonry chamber with cast iron lid and cast iron grating for the gully trap.			as directed by engineer in charge
95	Providing and laying concrete pipe of Indian Standard Non Pressure class 2 of 150 millimetre diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.			as directed by engineer in charge
96	Providing and laying concrete pipe of Indian Standard Non Pressure class 2 of 225 millimetre diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.			as directed by engineer in charge
97	Providing and constructing Brick Masonry Inspection Chamber 60 centimetre x 45 centimetre x 90 centimetre including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round Glazed Stone Ware pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with Reinforced Cement Concrete cover medium duty 140 kilogram with frame etc. complete.			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
98	Providing and constructing Brick Masonry Inspection Chamber 90 centimetre x 45 centimetre x 90 centimetre including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round Glazed Stone Ware pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with Reinforced Cement Concrete cover medium duty 140 kilogram with frame etc. complete.			as directed by engineer in charge
99	Providing and constructing Brick Masonry inspection trap Chamber 90 centimetre x 45 centimetre including 1:4:8 cement concrete foundation, 1:2:4 cement concrete channels/ half round glazed stoneware pipe channel, salt glazed stoneware intercepting trap with rodding pipe set in 1:4:8 cement concrete block, brick masonry plastering inside and outside, fixed in cement concrete with Reinforced cement concrete cover medium duty 140 kilogram etc. complete.			as directed by engineer in charge
100	Providing soak pit of size 120 centimetre x 120 centimetre x 120 centimetre including excavating and filling with brick-			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
101	RWH - Shallow Percolation Pit providing, constructing 2.0 meter deep shallow depth percolation pit comprising of 1.0m dia pre-cast rainforced cement concrete rings, 300 milimetre thick side filling around outside of rainforced cement concrete rings (annular space) with 40 milimetre size boulders including filling of percolation pit up to 0.5meter depth (from bottom up) with 25-75 milimetre clean washed gravels followed by 0.5 meter depth of 10-25 milimetre of clean washed stones followed by 0.5 meter of washed river fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) including netlon mesh between each gravel/fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) media layer including covering with rainforced cement concrete slab, manhole frame & cover, poly vinyl chloride rungs etc. including arrangement for inlet & outlet pipe, excavation & backfilling as shown in the drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels. All material should be of approved make. All works complete as per the drawing, technical specification and direction of the Engineer in charge			as directed by engineer in charge
102	Providing and fixing reinforced cement concrete Medium duty (100 kilogram) cover of size 60 centimeter x 45centimeter with frame over inspection chamber complete.			as directed by engineer in charge
103	Royalty Charges			as directed by engineer in charge
104	Surcharge 2% on Royalty Charges			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
	Conducting prescribed tests for Quality Control.			<p>1) The test shall be carried out in accordance with the Clause " Samples & Testing of Materials " give under "Additional General Conditionas & Specification" of this tender document.</p> <p>2) The testing of materials shall be carried out as per the frequency specified by the Vigilance & Quality Control Circle , pune and shall be the responsibility of contractor.</p> <p>3)The material required for testing shall be sent by the contractor to the specified Laboratory at his own risk and cost.</p> <p>4)In case the desired results are not obtained during testing or the material is rejected due to unsatisfactory results the testing charges shall not be paid to the contractor.</p> <p>5)It shall be obligatory on contractor to produce the test result along with receipt of payment made to the Laboratory, for releasing payment towards Testing Charges.</p> <p>6)In case additional testing of material found necessary due to change in source,no seperate payment shall be made and it shall be the entire responsiblity of contractor.</p> <p>7)Testing charges are mentioned in view of the rates finalised by the Vigilance & Quality Control Circle, Pune and it will be the responsibility of contractor to pay the testing charges to the concerned Laboratory in as directed by engineer in charge</p>
105	Testing Charges for conducting BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.			
106	Testing Charges for conducting BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
107	Testing Charges for conducting BASIC TEST OF AGGREGATE. Sieve Analysis test.			as directed by engineer in charge
108	Testing Charges for conducting BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.			as directed by engineer in charge
109	Testing Charges for conducting FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.			as directed by engineer in charge
110	Testing Charges for conducting BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks) test.			as directed by engineer in charge
111	Testing Charges for conducting CERAMIC TILES / VITRIFIED TILES Water Absorption, Modulus of Rupture (Set of 6 Tiles) test.			as directed by engineer in charge
112	Testing Charges for conducting CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.			as directed by engineer in charge
113	Testing Charges for conducting Concrete Mix Design (With all Tests on basic materials).			as directed by engineer in charge
114	Testing Charges for conducting MORTAR Compressive Strength (Set of 3 Cubes) test.			as directed by engineer in charge
115	Testing Charges for conducting SOIL / MURUM Liquid limit			as directed by engineer in charge
116	Testing Charges for conducting SOIL / MURUM Compaction Test (Proctor Density).			as directed by engineer in charge
117	Testing Charges for conducting SOIL / MURUM C.B.R. Test (Lab) Excluding compaction test.			as directed by engineer in charge
118	Testing Charges for conducting WOOD Density, Moisture Content test.			as directed by engineer in charge
119	Testing Charges for conducting FLUSH DOOR Knife Test, Adhesion Test, End Immersion Test.			as directed by engineer in charge
120	Testing Charges for conducting ALUMINIUM SECTION Test for Thickness, Mass Per Running meter.			as directed by engineer in charge
121	Testing Charges for conducting STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)			as directed by engineer in charge

Sr. No.	Description of Item	SSR It. No.	SSR 2022-23 Page No.	Additional Specifications
122	Testing Charges for conducting STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend			as directed by engineer in charge
123	Testing Charges for conducting CONCRETE PAVING BLOCKS Compressive Strength,Water Absorption test (Set of 8 Blocks).			as directed by engineer in charge
124	Testing Charges for Natural stone.Determination of Water Absorption, Specific Gravity test.			as directed by engineer in charge

पञ्चदुर्गाची आवक व खप यांचा हिशोब दाखविणारी

नोटवही क्र. १

कामाचे नांव :-

नागाल ससाहापाखून फामाख्या ठिकाणा शिखर पोता.

आयक आणि खप यांचा हिशेब

[illegible]

कंत्राटदाराची सही

अभियंत्याची सही

नोटपुस्तिका क्रमांक २

निरनिराळ्या बाबींची आठवड्यामध्ये उपयोगात आणणे आवश्यक असलेले सिमेंट परिमाण व प्रत्यक्षात उपयोगात आणलेले परिमाण यांची तुलना दाखविणारे कोष्टक.

आठवड्यामध्ये केलेल्या कामाचे एकूण अंदाजे परिमाण.

- १) पाईप व मोन्या
२) इतर संकीर्ण

अ. क्र.	बांधीचे नाव	केलेल्या कामाचे अंदाजे परिमाण परिमाण एकमाण	वापरणे आवश्यक असलेले सिमेंटचे परिमाण / पोत्यांमध्ये (पोत्यांच्या प्रत्येक संख्येत)	वापरादयारास हवे असलेल्या सिमेंटचे एकूण परिमाण	प्रत्येक वापरलेले सिमेंटचे एकूण परिमाण (पोत्यांमध्ये)
१	२	३	४	५	६

Principal,
Government College of Engineering, Karad

DRAWINGS

CONTRACT DRAWINGS :

The contract drawings provided for tendering purpose with the tender documents shall be used as a reference only. Contractor should visualize the nature of type of work contemplated and to ensure that the rates and prices quoted by him in the bill of quantities take due consideration of the complexities of work involved during actual execution / construction as experienced Contractor in the field.

The tendered rates / prices for the work shall be deemed to include the cost of preparation, supply and delivery of all necessary drawings, prints, tracings and negatives which the Contractor is required to provide in accordance with the Contract.

DOCUMENTATION:

If so ordered by the Engineer-in-charge, the Contractor will prepare drawings of the work at constructed and will supply original and three copies to the Engineer who will verify these drawings. Final as constructed drawings shall then be prepared by the Contractor and supplied in triplicate along with a micro film of the same to the Engineer for record and reference purposes at the Contractor's cost.

Signature of Contractor

No. of Corrections

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<Attached Necessary Drawings below>

Signature of Contractor

No. of Corrections

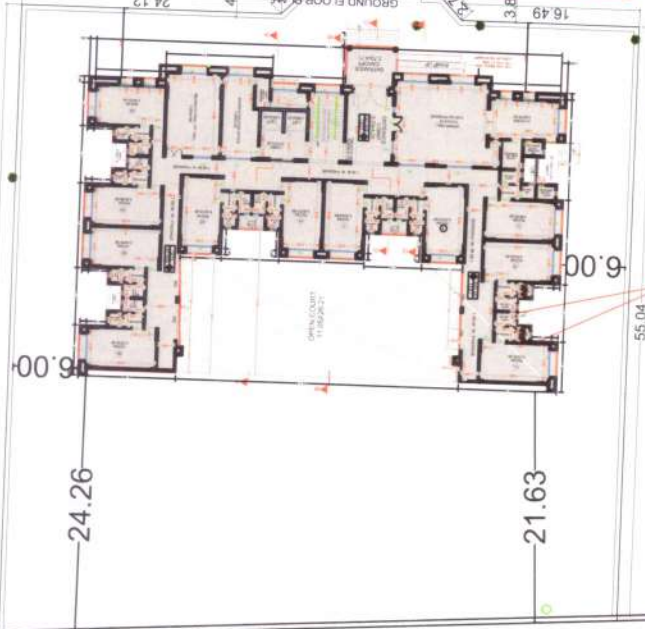
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Project 2024	Discipline	DRAWING ISSUE REGISTER					
Proposed SC/ST Hostel Building For Govt.Collage Of Engineering, At-Karad ,Dist-Satara	ARCHITECTURAL						
Drawing Title	Day						
	Month						
	Year						
Drawing Title	Number						
Site Plan	P001 A 00 101	0					
Ground Floor Plan	P001 A 01 101	0					
First Floor Plan	P001 A 01 102	0					
Second Floor Plan	P001 A 01 103	0					
Terrace Floor Plan	P001 A 01 104	0					
Roof Plan	P001 A 01 105	0					
Sections	P001 A 02 101	0					
Elevations (Sheet 1/2)	P001 A 02 102	0					
Elevations (Sheet 2/2)	P001 A 02 103	0					
Storm Water Layout	P001 A 03 101	0					
Drainage Layout	P001 A 03 102	0					
Staircase Details	P001 A 04 101	0					
U.G. Tank Detail	P001 A 05 101	0					
Admin Office Toilet Detail	P001 A 05 102	0					
Toilet & Pot Washing Area Details	P001 A 05 103	0					
Typical Toilet Detail	P001 A 05 104	0					
Toilet Elevation	P001 A 05 105	0					
Septic Tank Detail	P001 A 05 106	0					
DISTRIBUTION							
Client		PDF					
Project Manager							
Consultant - Structure							
Consultant - MEP							
STATUS		T					
A - Approval C - Construction E - Estimation I - Information 0+1 = A3 P - Preliminary S - Soft Copy T - Tender 1+1 = A1+A3 SK=A4 Sketch							





WATER TANK



PROPOSED GIRL'S
HOSTEL BUILDING



DIPLOMA
BUILDING

Principal
Government College of Engineering, Karad

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

AR. Pramil P. Patil
Reg. No. CA/2018/103643
Arch

TENDER DRAWINGS

GENERAL NOTES:
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2. Dimensions are not to be taken from this drawing. They are to be taken from the approved contract documents and specifications.
3. The contractor is to verify the accuracy of the dimensions and levels shown on the drawing and to report any discrepancies to the architect before execution of the works.
4. Any discrepancies, either between written dimensions and those shown on the drawing, or between the drawing and the site conditions, are to be reported to the architect before execution of the works.

Rev	Date	Description	Drawn
APPROVED	Signature:	Date:	
CHECKED	Signature:	Date:	
DRAWN BY	Signature:	Date:	
ARCHITECTS	Signature:	Date:	
AR. PRAMIL PATIL			
REG NO CA/2018/103643			
CLIENT:			
Govt College Of Engineering, At Karad Dist-Satara			
PROJECT:			
Proposed SCST Hostel Building For Govt College Of Engineering, At Karad Dist-Satara			
DWG TITLE:			
SITE PLAN			
SCALE:			
CREATED: 04.03.2024			
JOB NO: P001			
DISCIPLINE: ARCHITECTURE			
ISSUED FOR INFORMATION			
DRAWING NUMBER: 1			
P001 A00 101			
Revision:			

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA-KARAD, DISTRICT - SATARA

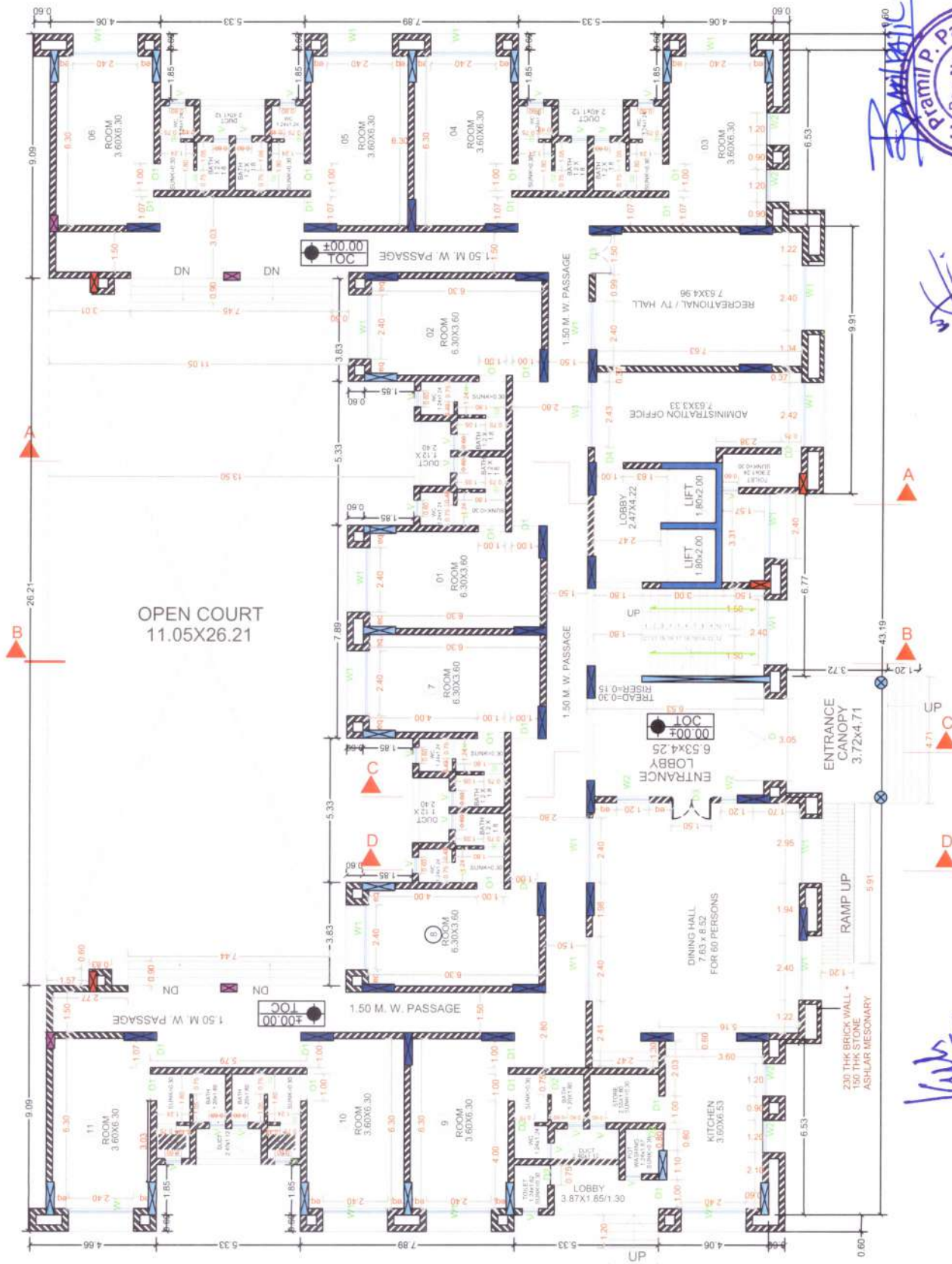
TENDER DRAWINGS

GENERAL NOTES
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Any discrepancies, either between the drawings, dimensions, and site dimensions or between the drawings and the specifications, should be brought to the attention of the architect before executing the work.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA-KARAD, DISTRICT - SATARA

Rev. Date Description
APPROVED: Signature: Date:
CHECKED: Signature: Date:
DRAWN BY: Signature: Date:
ARCHITECTS
AR. PRAMIL PATIL
REG NO CA2018/103643
CLIENT:
Govt College
Of Engineering, At-Karad, Dist-Satara
PROJECT:
Proposed SC/ST Hostel
Building For Govt College
Of Engineering, At-Karad, Dist-Satara
DWG TITLE:
GROUND FLOOR PLAN

SCALE: CREATED: 14.05.2024
JOB NO: P001
DISCIPLINE: ARCHITECTURE
ISSUED FOR INFORMATION
DRAWING NUMBER: 1
P001 A01 101 Revision:
A2



MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

GROUND FLOOR PLAN

Principal
Government College of Engineering, Karad

TENDER DRAWINGS

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Dimensions are not to be scaled from this drawing.
All work is to be carried out in accordance with the specifications and standards of the Government of Karnataka.
The contractor and their subcontractors are to verify all dimensions on site before making any shop drawings and before commencing any work.
Any discrepancies, either between written dimensions and site dimensions or between the drawings and the site conditions, should be brought to the immediate attention of the architect before executing the work.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA-KARAD, DISTRICT - SATARA

Rev	Date	Description	Drawn
APPROVED:	Signature:	Date:	
CHECKED:	Signature:	Date:	
DRAWN BY:	Signature:	Date:	

ARCHITECTS

AR. PRAMIL PATIL
REG NO CA/2018/103643

CLIENT:

Govt College
Of Engineering, At Karad, Dist.Satara

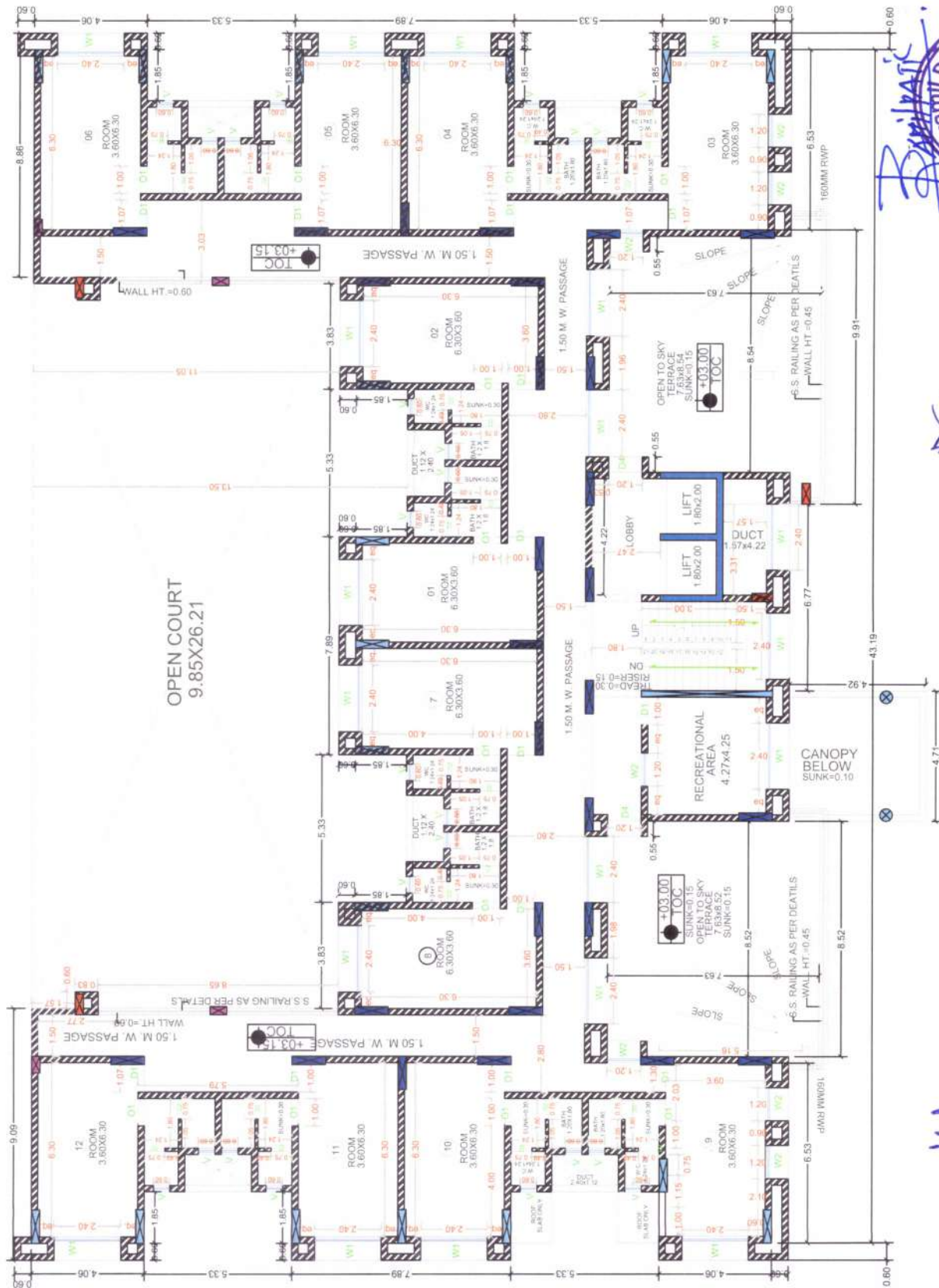
PROJECT:
Proposed SCIST Hostel
Building For Govt College
Of Engineering, At Karad, Dist.Satara

DWG TITLE:

FIRST FLOOR PLAN

SCALE:	CREATED 04.05.2024
JOB NO:	P001
DISCIPLINE:	ARCHITECTURE
ISSUED FOR INFORMATION	
DRAWING NUMBER:	1
P001 A01 102	Revision:

A2



Principal

Government College of Engineering, Karad

FIRST FLOOR PLAN

MEMBER SECRETARY

Building Works Committee
Govt. College of Engineering, Karad



TENDER DRAWINGS

GENERAL NOTES:
This drawing is intended to be used in conjunction with the tender documents, specifications and bill of materials. It is not to be used as a basis for construction. All works are to be carried out in accordance with the relevant B.S. and codes of practice and are also to meet the local authority requirements. The drawings are to be read in conjunction with the dimensions on site before making any construction and before executing the works.
Any discrepancies, either between the drawings and the dimensions or between the drawings and the specifications, shall be brought to the immediate attention of the architect before executing the works.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA- KARAD, DISTRICT - SATARA

Rev	Date	Description	Drawn
APPROVED	Signature:	Date:	
CHECKED	Signature:	Date:	
DRAWN BY	Signature:	Date:	

ARCHITECTS

AR. PRAMIL PATIL
REG NO CA/2018/103643

CLIENT:

Govt College
Of Engineering, Al-Karad, Dist-Satara

PROJECT:
Proposed SCST Hostel
Building Govt College
Of Engineering, Al-Karad, Dist-Satara

DWG TITLE:

SECOND FLOOR PLAN

SCALE: CREATED: 04.05.2024

JOB NO: P001

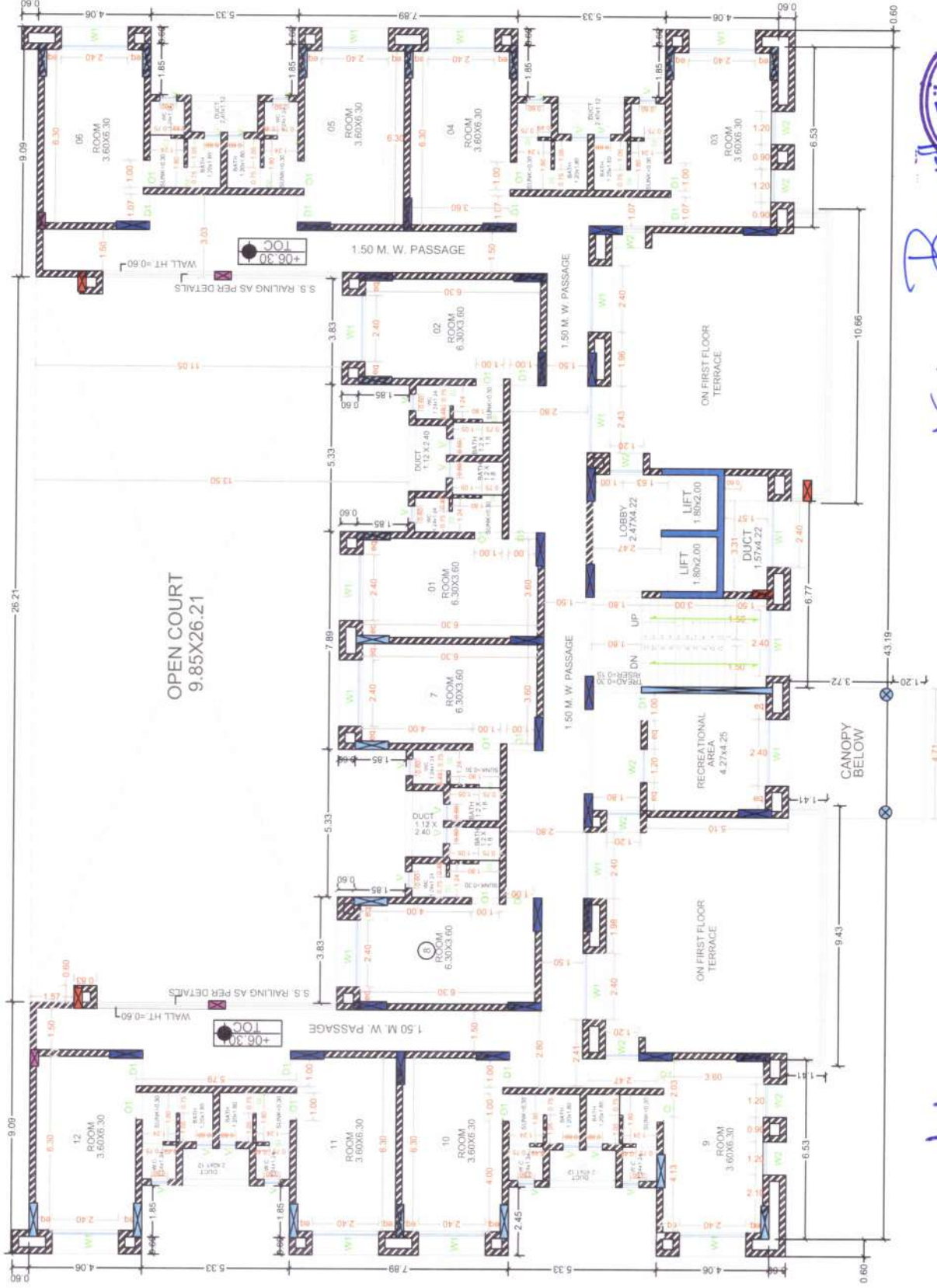
DISCIPLINE: ARCHITECTURE

ISSUED FOR INFORMATION

DRAWING NUMBER: 1

P001 A01 103 Revision:

A2

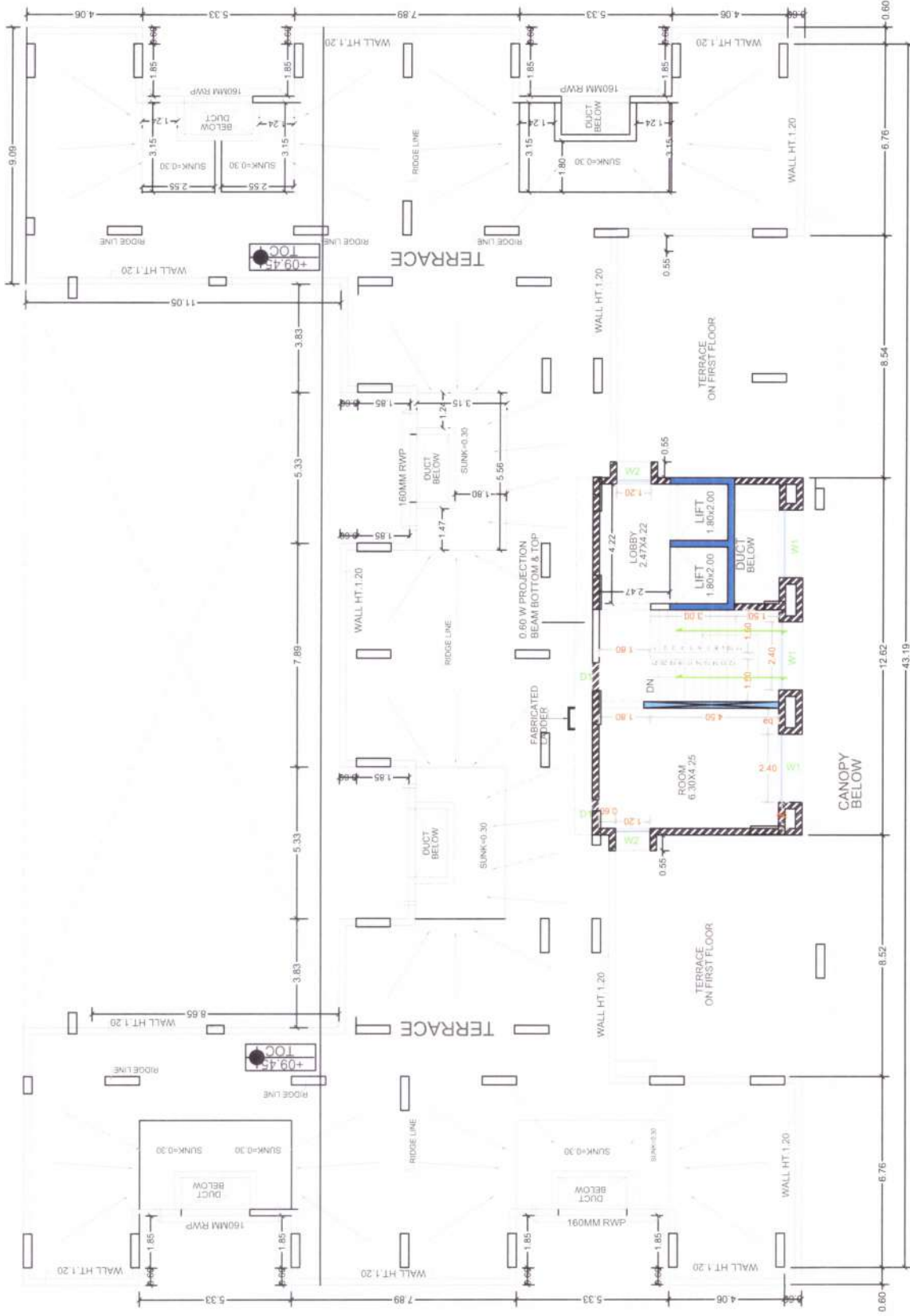


MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

SECOND FLOOR PLAN

Principal
Government College of Engineering, Karad

NOTE- ALL TERRACE COLUMNS SHOULD CAST IN M-10 GRADE CONCRETE



TERRACE FLOOR PLAN

Principal
Government College of Engineering, Karad

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

Pratibha P. Patil
Reg. No. CA/2018/103643
8. Arch

TENDER DRAWINGS

GENERAL NOTES:
This drawing is protected by copyright. This drawing is to be read in conjunction with the contract documents and specifications. Dimensions are to be taken from the drawing. All works are to be carried out in accordance with the relevant B.S. and codes of practice and are to be completed within the specified time. The contractor and their subcontractors are to verify all dimensions on site before making any stage drawings and before commencing the work.
Any discrepancies, either between written dimensions and site dimensions or between this drawing and other documents or between this drawing and the site conditions, shall be referred to the attention of the architect before executing the work.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA-KARAD, DISTRICT - SATARA

Rev	Date	Description	Drawn
APPROVED	Signature:	Date:	
CHECKED	Signature:	Date:	
DRAWN BY	Signature:	Date:	
ARCHITECTS			
AR. PRAMIL PATIL			
REG NO CA2018/103643			
CLIENT:			
Govt College			
Of Engineering, Al-Karad, Dist-Satara			
PROJECT:			
Proposed SCIST Hotel			
Building For Govt College			
Of Engineering, Al-Karad, Dist-Satara			
DWG TITLE:			
TERRACE FLOOR PLAN			
SCALE:			
CREATED: 04.05.2024			
JOB NO:	P001		
DISCIPLINE:	ARCHITECTURE		
ISSUED FOR:	INFORMATION		
DRAWING NUMBER:	1		
P001 A01 104			
Revision:			

GENERAL NOTES

Any discrepancies, either between written dimensions and site dimensions or between the drawing and other consultants' or suppliers' drawings, should be brought to the immediate attention of the architect before executing the work.

Rev	Date	Description	Drawn
APPROVED:		Signature:	Date:
CHECKED:		Signature:	Date:
DRAWN BY:		Signature:	Date:

ARCHITECTS

REG NO CA/2018/103643

Govt. Collage
Of Engineering, Al-Karad, Dist-Satara

PROJECT: Proposed SC/ST Hostel
Building For Govt.College
Of Engineering, Al-Karad, Dist.Satara

DWG TITLE:

ROOF PLAN

SCALE: _____

JOB NO. P001

DISCIPLINE: ARCHITECTURE

ISSUED FOR INFORMATION

DRAWING

Revision: 05



ROOF PLAN

 Principal
Government College of Engineering, Karad

TENDER DRAWINGS

GENERAL NOTES

GENERAL NOTES

This drawing is protected by copyright. This drawing is to be read in conjunction with the relevant structural, mechanical and electrical drawings.

Dimensions are not to be scaled from this drawing.

All works are to be carried out in accordance with the relevant B.S. and codes of practice and also to meet the local authority requirements. The contractor and their subcontractors are to verify all dimensions on site before making any shop drawings and before extending the works.

Any discrepancies, either between written dimensions and size dimensions or between this drawing and other consultants' or suppliers' drawings, should be brought to the immediate attention of the architect before executing the works.

Rev	Date	Description	Drawn
APPROVED:		Signature:	Date:
CHECKED:		Signature:	Date:
DRAWN BY:		Signature:	Date:

ARCHITECT

0.0000

DEC NO CA 2010/103643

CLIENT

Cost-Effectiveness

Govt. Cottage
Station At Wood Post Office

Proposed SC/ST Hostel

Of Engineer

SECTIONS

CR

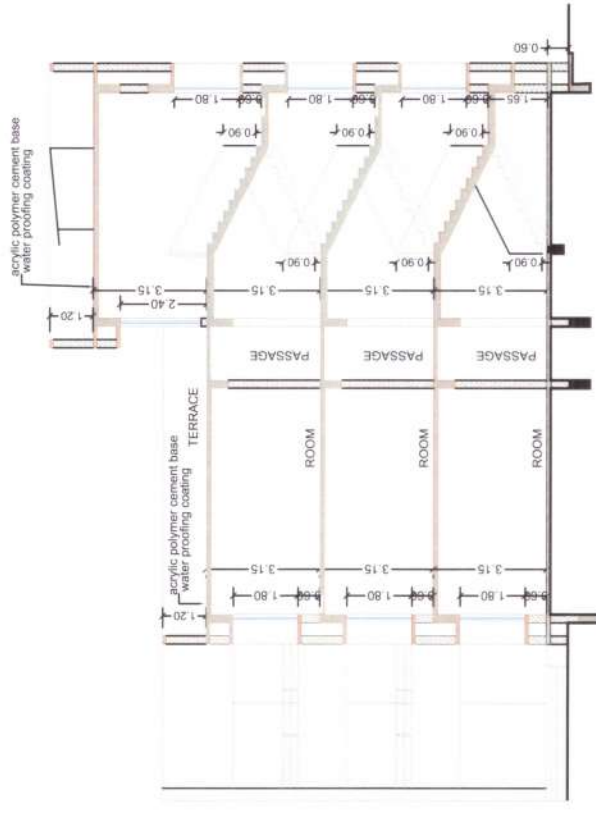
JOB NO.	FORM

1000

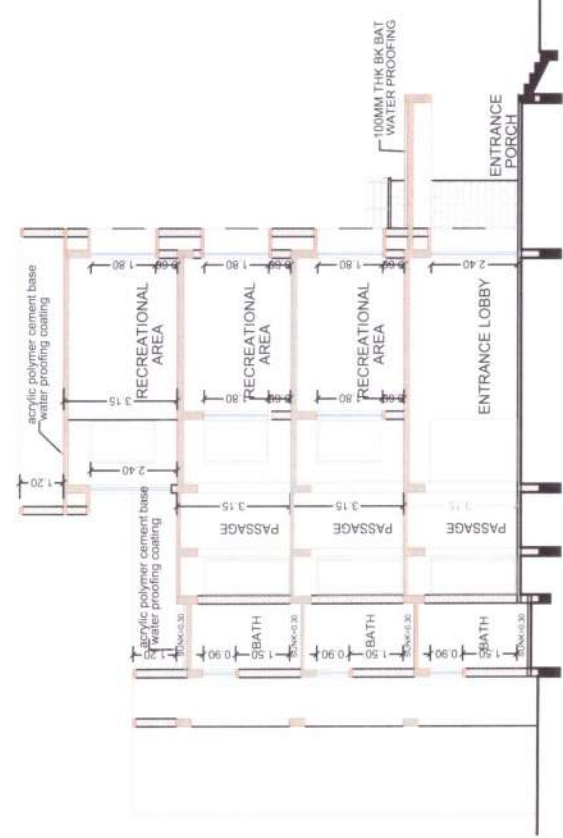
DRAWING NUM.

P001 A02 101 Revision:

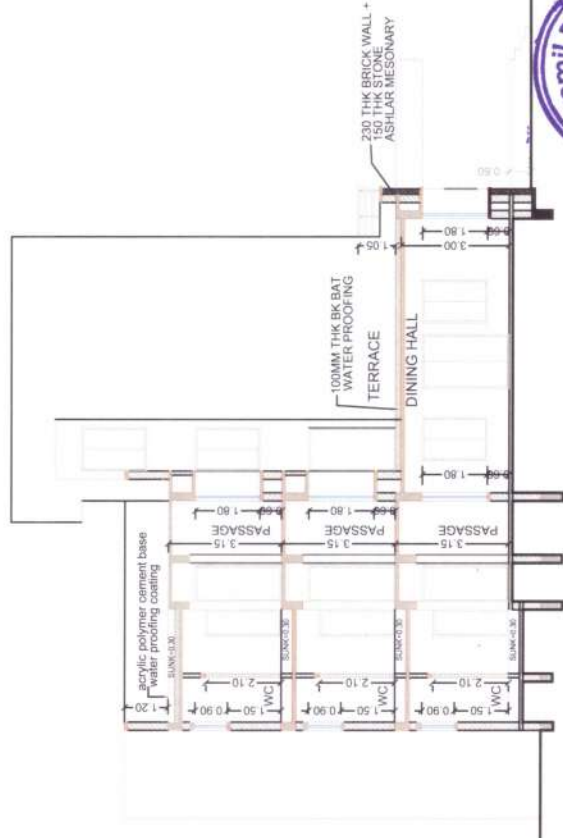
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SECTION A-A



SECTION B-B



SECTION C-C

SECTION
MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

SECTION D-E

SECTION
MEMBER SECRETARY

Building Works Committee
Govt College of Engineering, Karad

GENERAL NOTES

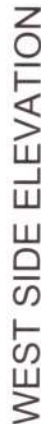
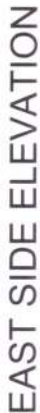
The drawings are protected by copyright. The drawings are to be read in conjunction with the relevant structural, mechanical and electrical requirements.

All works are to be carried out in accordance with the relevant codes and codes of practice and are to be carried out in accordance with the relevant contract and their subcontracts and to satisfy all requirements on site before making any shop drawings and before enclosing the same.

Any discrepancies, either between written requirements and site dimensions or between this drawing and site dimensions or between this drawing and the contract or between this drawing and the site dimensions should be brought to the attention of the architect before enclosing the same.

A2

Rev.	Date	Description	Drawn
APPROVED:	Signature:	Date:	
CHECKED:	Signature:	Date:	
DRAWN BY:	Signature:	Date:	
AR AKASH			
ARCHITECTS			
AR, PRAMIL PATIL			
RES NO. CA/2018/103643			
CLIENT:			
Govt College Of Engineering, At-Karad, Dist-Salara			
PROJECT:			
Proposed SCST Hostel Building For Govt College Of Engineering, At-Karad, Dist-Salara			
DWG TITLE:			
ELEVATION			
SCALE:			
CREATED: 04.05.2024			
JOB NO: P001			
DISCIPLINE: ARCHITECTURE			
ISSUED FOR: INFORMATION			
DRAWING NUMBER: 1			
P001 A02 102			
Revision:			



Prilipi



MEMBER SECRETARY

Building Works Committee

Principal
College of Engineering, Karad

Building Works Committee
Govt. College of Engineering, Karad

TENDER DRAWINGS

GENERAL NOTES
This drawing is protected by copyright. This drawing is to be read in conjunction with the relevant structural, mechanical and electrical drawings. All dimensions are in meters unless otherwise stated. All works are to be carried out in accordance with the relevant B.S. and codes of practice and are also to meet the local authority requirements. The contractor shall be responsible for obtaining all necessary permissions on site before making any shop drawings and before executing the works.
Any discrepancies, either between written dimensions and site dimensions or between this drawing and other consultants' or suppliers' drawings, should be brought to the immediate attention of the architect before executing the works.

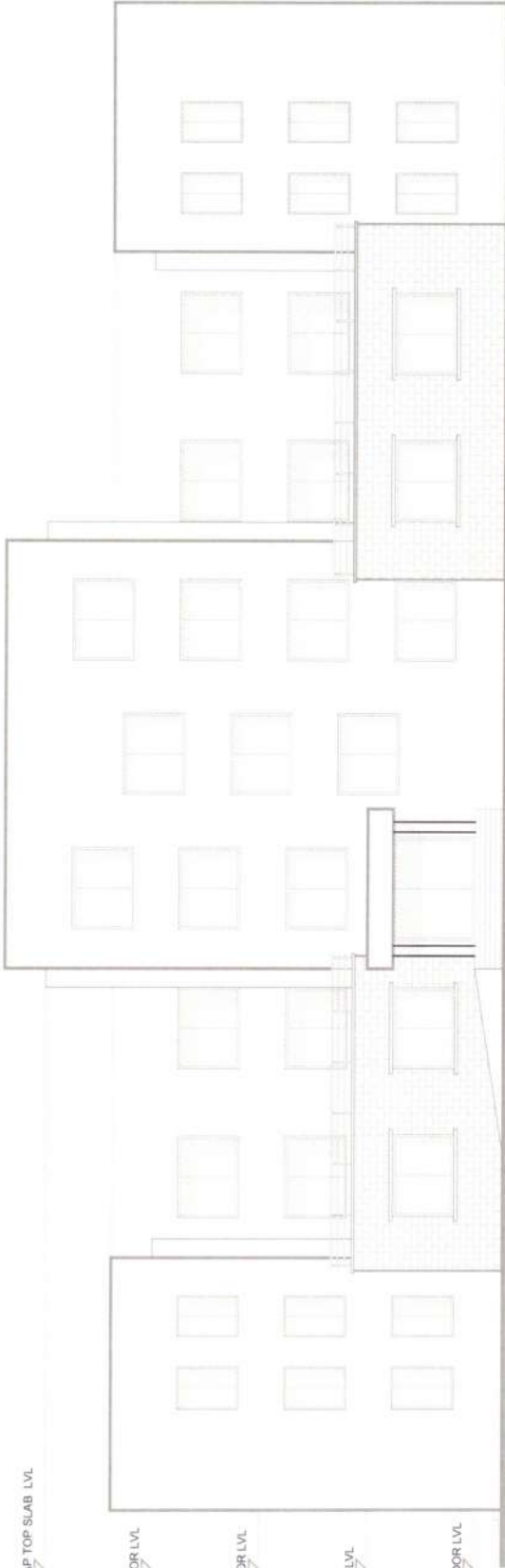
STAIRCASE CAP TOP SLAB LVL
+ 09.45

TERRACE FLOOR LVL
+ 09.45

SECOND FLOOR LVL
+ 06.30

FIRST FLOOR LVL
+ 03.15

PLINTH / GROUND FLOOR LVL
± 00.00



NORTH SIDE ELEVATION

[Signature]

Principal

Government College of Engineering, Karad

[Signature]

MEMBER SECRETARY

Building Works Committee
Govt. College of Engineering, Karad



Rev	Date	Description	Drawn
APPROVED	Signature:	Date:	
CHECKED	Signature:	Date:	
DRAWN BY	Signature:	Date:	

ARCHITECTS

AR. PRAMIL PATIL

REG NO CA/2018/103643

CLIENT:

Govt College
Of Engineering, At-Karad, Dist-Satara

PROJECT:

Proposed SC/ST Hostel
Building For Govt College
Of Engineering, At-Karad, Dist-Satara

DWG TITLE:

ELEVATION

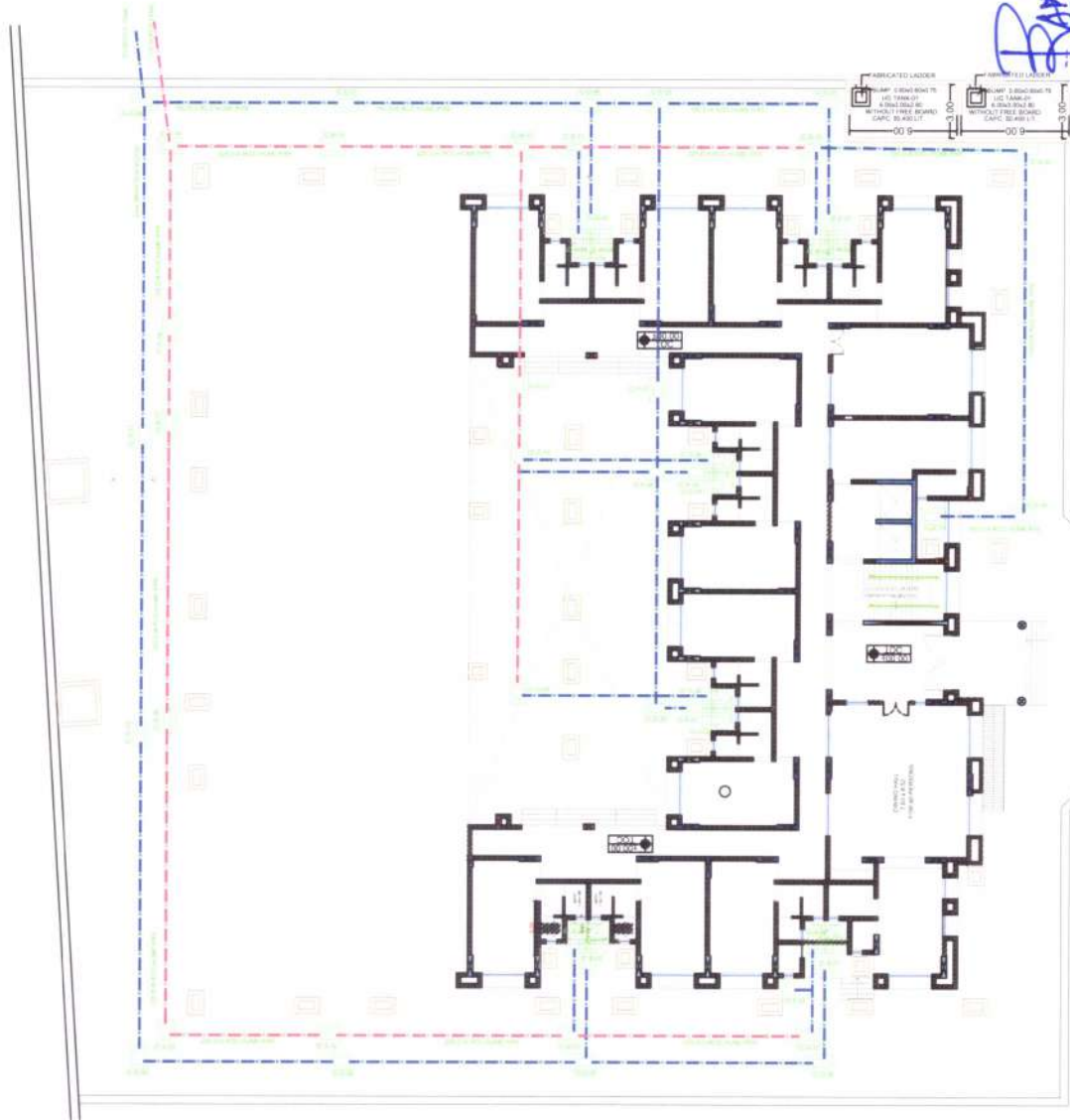
SCALE:	CREATED: 04.05.2024
JOB NO:	P001
DISCIPLINE:	ARCHITECTURE
ISSUED FOR:	INFORMATION
DRAWING NUMBER:	1
P001 A02 103	Revision:

IC-A,B,C = 450x600		
NO	CHAMBER TYPE	INVERT LEVEL
01	IC-A-01	
02	IC-A-02	
03	IC-A-03	
04	IC-A-04	
05	IC-A-05	
06	IC-A-06	
07	IC-A-07	
08	IC-A-08	
09	IC-A-09	
10	IC-A-10	
11	IC-A-11	
12	IC-A-12	
13	IC-A-13	
14	IC-A-14	
15	IC-A-15	
16	IC-A-16	
17	IC-A-17	
18	IC-A-18	
19	IC-B-01	
20	IC-B-02	
21	IC-B-03	
22	IC-B-04	
23	IC-B-05	
24	IC-B-06	
25	IC-B-07	
26	IC-B-08	
27	IC-B-09	
28	IC-B-10	
29	IC-B-11	
30	IC-B-12	
31	IC-B-13	
32	IC-B-14	
33	IC-C-01	
34	IC-C-02	
35	IC-C-03	
36	IC-C-04	
37	IC-C-05	
38	IC-C-06	
39	IC-C-07	
40	IC-C-08	
41	IC-C-09	
42	IC-C-10	
43	IC-C-11	

IC-D,E,F = 450x600		
NO	CHAMBER TYPE	INVERT LEVEL
01	IC-D-01	
02	IC-D-02	
03	IC-D-03	
04	IC-D-04	
05	IC-D-05	
06	IC-D-06	
07	IC-D-07	
08	IC-D-08	
09	IC-D-09	
10	IC-D-10	
11	IC-D-11	
12	IC-E-01	
13	IC-E-02	
14	IC-E-03	
15	IC-E-04	
16	IC-E-05	
17	IC-E-06	
18	IC-E-07	
19	IC-E-08	
20	IC-F-01	
21	IC-F-02	
22	IC-F-03	
23	IC-F-04	
24	IC-F-05	
25	IC-F-06	
26	IC-F-07	

Principal
Government College of Engineering, Karad

- Legend:
- 1. 150mmØ RCC NP-2 Drainage Pipe
 - 2. 225 mmØ RCC NP-2 Drainage Pipe



GROUND FLOOR PLAN

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad



DRAINAGE LAYOUT

TENDER DRAWINGS

GENERAL NOTES
This drawing is submitted by copyright. The drawing is to be read in conjunction with the relevant structural, mechanical and electrical drawings. All dimensions are to be scaled from this drawing. All works are to be carried out in accordance with the relevant B.S. and codes of practice and are also to meet the local authority requirements. The contractor shall be responsible for verifying all dimensions on site and for making any necessary adjustments before executing the works.
Any discrepancies, either between written instructions and drawings, or between drawings, shall be brought to the immediate attention of the architect before executing the works.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA- KARAD, DISTRICT - SATARA

Rev	Date	Description	Drawn
APPROVED:	Signature:	Date:	
CHECKED:	Signature:	Date:	
DRAWN BY:	Signature:	Date:	
ARCHITECTS			
AR. PRAMIL PATIL			
REG NO CA/2018/103643			
CLIENT:			
Govt College			
Of Engineering, Al-Karad Dist-Satara			
PROJECT:			
Proposed SCST Hospital			
Building For Govt College			
Of Engineering, Al-Karad Dist-Satara			
DWG TITLE:			
DRAINAGE LAYOUT			
SCALE:			
CREATED: 04.05.2024			
JOB NO: P001			
DISCIPLINE: ARCHITECTURE			
ISSUED FOR INFORMATION			
DRAWING NUMBER: 1			
P001 A03 102			
Revision:			

GENERAL NOTES

GENERAL NOTES

1. This drawing is reproduced by copyright. The drawing is to be read in conjunction with the relevant structure mechanical and electrical drawings.

2. Dimensions are not to be scaled from this drawing.

3. All works are to be carried out in accordance with the relevant codes of practice and the drawings.

4. The contractor shall subcontractors to verify all dimensions on site before making any shop drawings and before executing the works.

5. Any discrepancies, either between written dimensions and site dimensions or between this drawing and other consultants, or suppliers drawings shall be referred to the architect for the attention of the contractor before execution of the works.

Rev	Date	Description	Drawn
APPROVED:		Signature:	Date:
CHECKED:		Signature:	Date:
DRAWN BY:		Signature:	Date:

ARCHITECTS

AR PRAMII PATI

EG NO CA/2018/103643

44001010750000107

©

Govt. Collage
Of Engineering At Karad Dist. Satara

PROJECT-

Proposed SC/ST Hostel
Building For Govt. College
Of Engineering, At: Karad, Dist-Satara

DWG TITLE:

STAIRCASE DETAILS

SCALE: _____

P001

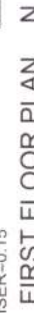
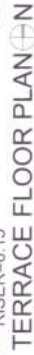
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CINE: ARCHITECTURE

FOR INFORMATION

Revision: 04 101

A3



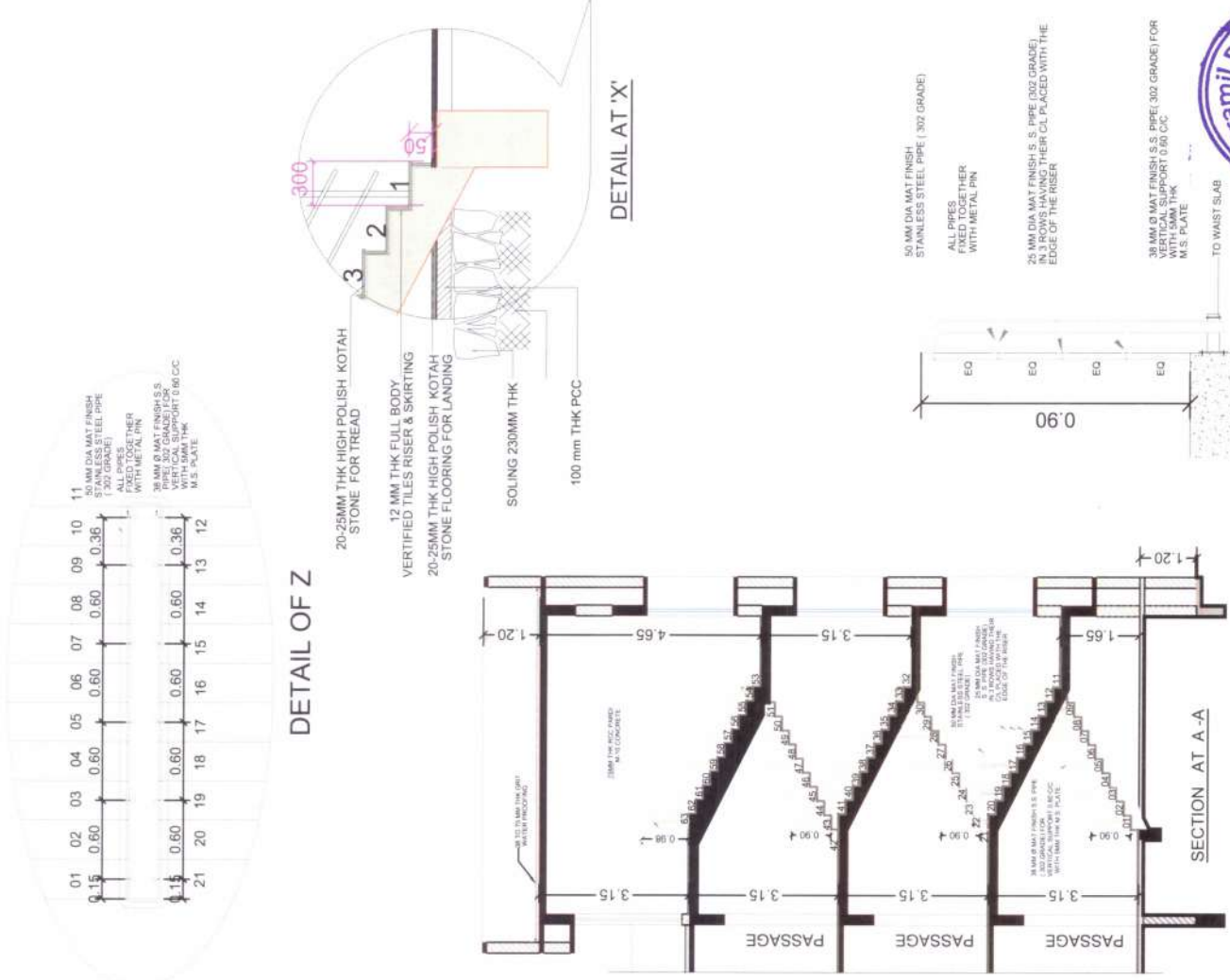
Principal

Government College of Engineering, Karad

MEMBER SECRETARY

Building Works Committee

Gust Mallone and Emanuele - 12 -



TO WAIST SLAB

38 MM Ø MAT FINISH S.S. PIPE(302 GRADE) FOR
VERTICAL SUPPORT 0.60 C/C
WITH 5MM THK
M.S. PLATE.

25 MM DIA MAT FINISH 5 S PIPE (302 GRADE)
IN 3 ROWS HAVING THEIR CL PLACED WITH THE
EDGE OF THE RISER

50 MM DIA MAT FINISH
STAINLESS STEEL PIPE (302 GRADE)

ALL PIPES
FIXED TOGETHER

TENDER DRAWINGS

GENERAL NOTE:
The drawing is to be read in conjunction with the relevant structural, mechanical and electrical drawings. The drawing is to be read in conjunction with the relevant specifications and codes of practice and are also to meet the local authority requirements. The contractor is to ensure that the drawings are read and understood before executing the works.
Any discrepancies, other than between drawings, shall be brought to the attention of the architect before executing the works.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCCITY, MALKAPUR, TALUKA- KARAD, DISTRICT - SATARA

Rev	Date	Description	Drawn
APPROVED	Signature:	Date:	
CHECKED	Signature:	Date:	
DRAWN BY	Signature:	Date:	
ARCHITECTS			

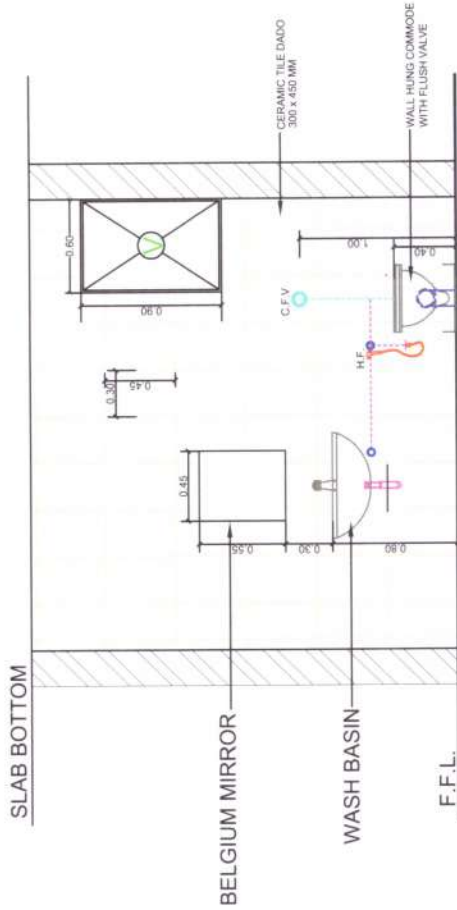
AR. PRAMIL PATIL
REG NO CA/2018/103643
CLIENT:

Govt College
Of Engineering, Al-Karad, Dist-Satara

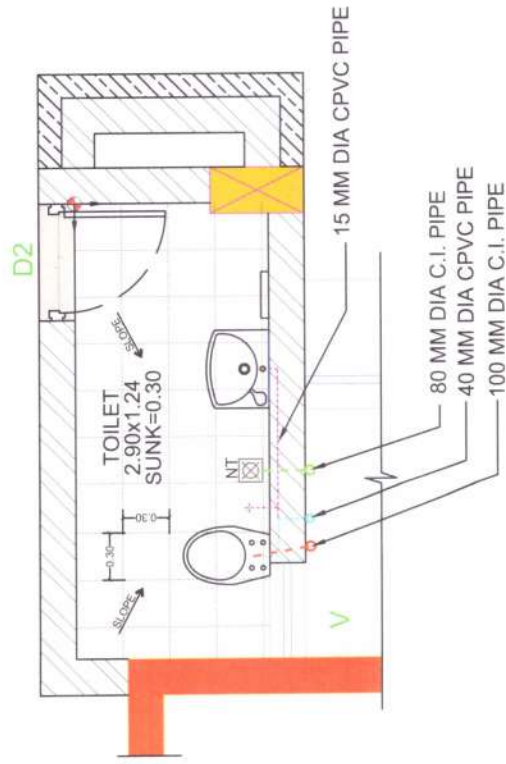
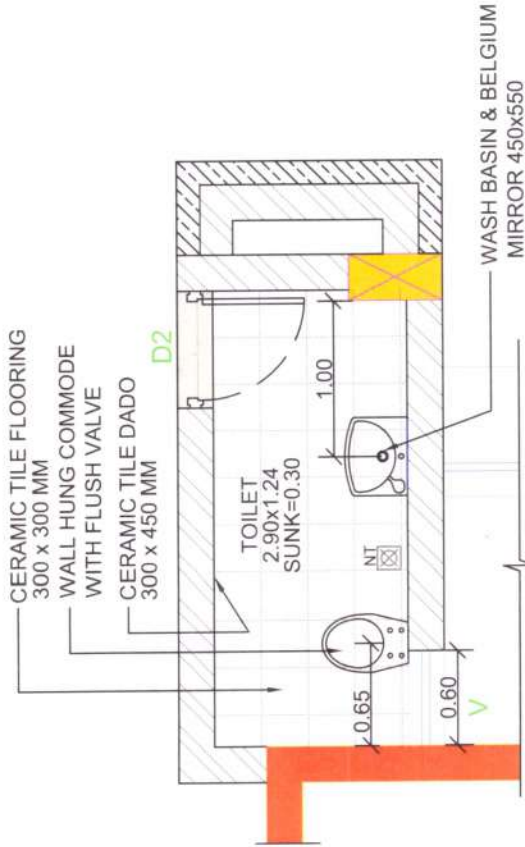
PROJECT:
Proposed SCIST Hostel
Building For Govt College
Of Engineering, Al-Karad, Dist-Satara

DWG TITLE:
TOILET DETAIL

SCALE:	CREATED: 04.05.2024
JOB NO:	P001
DISCIPLINE:	ARCHITECTURE
ISSUED FOR:	INFORMATION
DRAWING NUMBER:	1
P001 A05 102	Revision:



ELEVATION



ADMIN OFFICE TOILET DETAIL



Principal
Government College of Engineering, Karad

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

TENDER DRAWINGS

GENERAL NOTE:
This drawing is to be used in conjunction with the relevant structure, mechanical and electrical drawings. Dimensions are not to be scaled from this drawing. The contractor is to verify all dimensions with the architect and the relevant B.S. and codes of practice and are also to meet the local authority requirements. The contractor and their subcontractors are to verify all dimensions and levels on site and to report any discrepancies before executing the work.
Any discrepancies, either between written dimensions and the drawings or between this drawing and the relevant structure, mechanical and electrical drawings, should be brought to the immediate attention of the architect before executing the work.

ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCITY, MALKAPUR, TALUKA- KARAD, DISTRICT - SATARA

Karad

Rev	Date	Description	Drawn
APPROVED:	Signature:	Date:	
CHECKED:	Signature:	Date:	
DRAWN BY:	Signature:	Date:	
AR AKASH			

ARCHITECTS

AR. PRAMIL PATIL
REG NO CA/2018/103643

CLIENT:

Govt College
Of Engineering, Al-Karad Dist-Satara

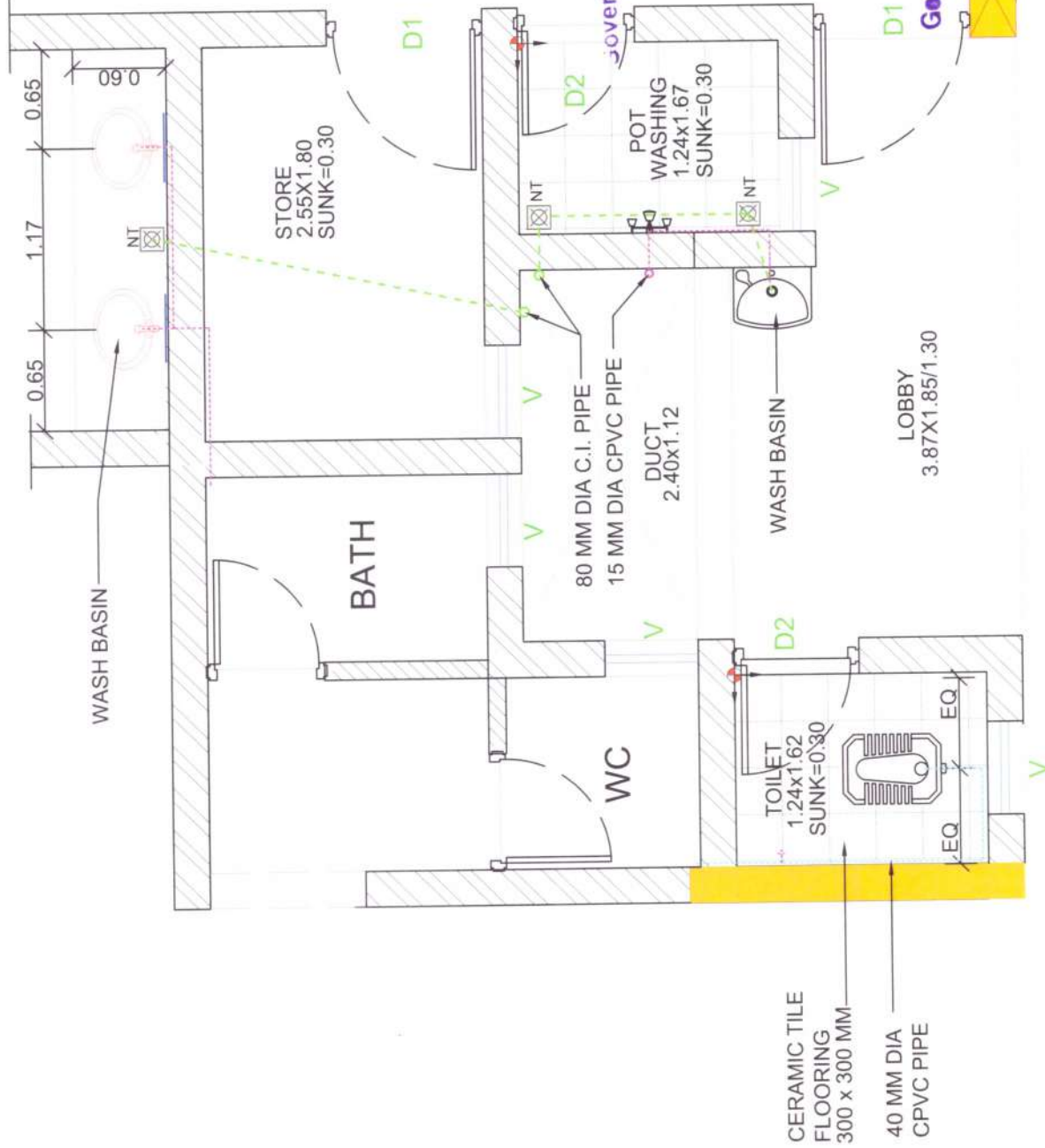
PROJECT:

Proposed SCST Hostel
Building For Govt College
Of Engineering, Al-Karad Dist-Satara

DWG TITLE:

TOILET DETAILS

SCALE:	CREATED: 04.05.2024
JOB NO:	P001
DISCIPLINE:	ARCHITECTURE
ISSUED FOR INFORMATION	
DRAWING NUMBER:	1
P001 A05 103	Revision:



TOILET & POT WASHING AREA
DETAILS NEAR KITCHEN

Principal
Government College of Engineering, Karad

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad



GENERAL NOTES:
This drawing is protected by copyright. This drawing is to be read in conjunction with the relevant structural and electrical drawings.
Dimensions are not to be scaled from this drawing.
All works are to be carried out in accordance with the relevant standards and specifications.
The contractor shall submit any shop drawings for approval on site before making any shop drawings and before executing the works.
Any discrepancies, either between author's dimensions and site dimensions or between this drawing and other drawings, should be brought to the immediate attention of the architect before executing the works.

GENERAL NOTES
This drawing is provided for informational purposes only. It is to be read in conjunction with the project specifications and structural requirements. Dimensions are noted on the drawing. All work shall be in accordance with the relevant building codes and standards. It is the responsibility of the contractor to verify all dimensions and conditions before construction.

Any discrepancies, either between written dimensions and site dimensions or between this drawing and other consultants' or suppliers' drawings, should be brought to the immediate attention of the architect before commencing the work.

Rev	Date	Description	Drawn
APPROVED:		Signature:	Date:
CHECKED:		Signature:	Date:
DRAWN BY:		Signature:	Date:
AR AKASH			
ARCHITECTS			

AR. PRAMIL PATIL
REG NO CA/2018/103643

CLIENT:

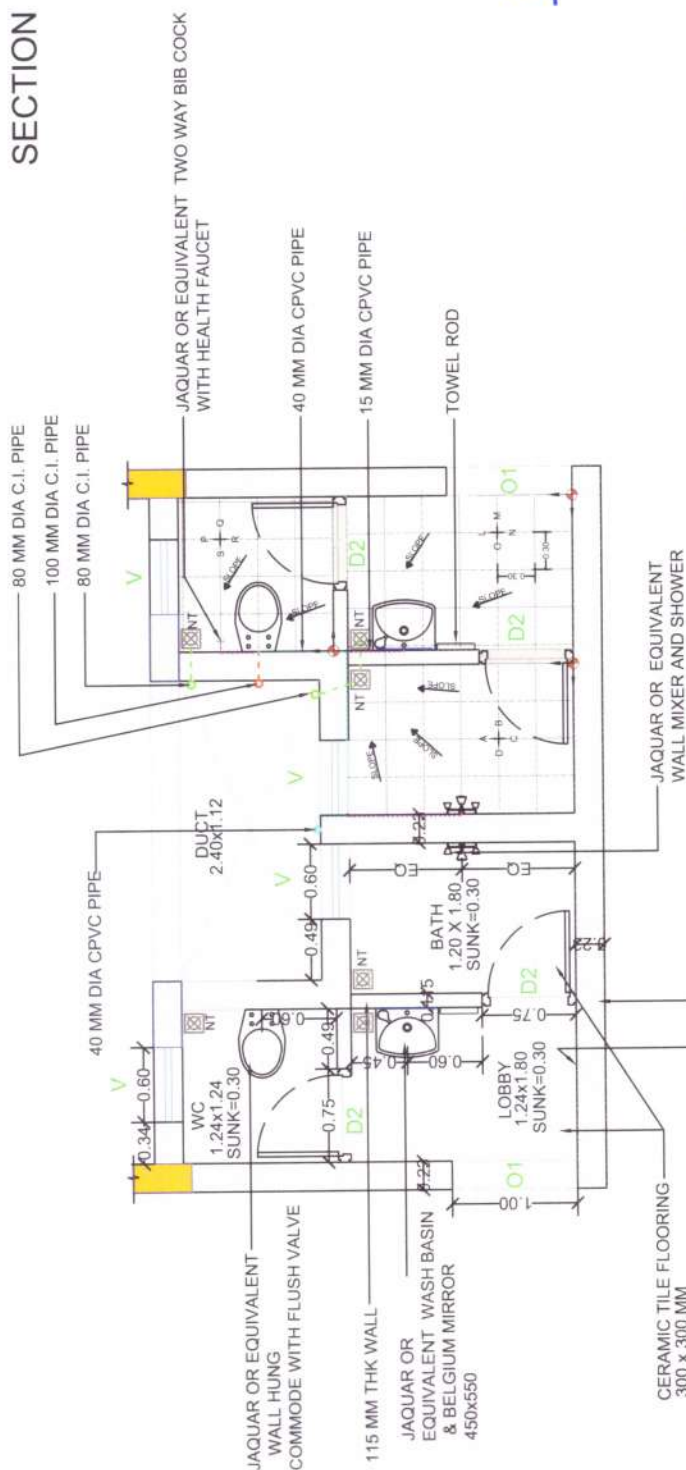
Govt Collage
Of Engineering, At-Karad, Dist-Satara

PROJECT:

Proposed SC/ST Hostel
Building For Govt College
Of Engineering, Al-Karad, Dist-Salara

DWG TITLE:

SCALE: CREATED: 04-05-2024
 JOB NO: P001
 DISCIPLINE: ARCHITECTURE
 ISSUED FOR: INFORMATION
 DRAWING NUMBER: 1
 P001 A05 104 Revision:



PLAN

CERAMIC TILE FLOOR
300 x 300 MM
CERAMIC TILE DADO -
300 x 450 MM
230 MM THK WALL —

40 MM DIA CPVC PIPE

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, K

TYPICAL TOILET DETAIL

TENDER DRAWINGS

GENERAL NOTES
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ADDRESS- SAI DATT APARTMENT, FLAT NO.2, SUNCCITY, MALKAPUR, TALUKA-KARAD, DISTRICT - SATARA

Rev	Date	Description	Drawn
APPROVED:	Signature:	Date:	
CHECKED:	Signature:	Date:	
DRAWN BY:	Signature:	Date:	
ARCHITECTS	ARAKASH		
	AR. PRAMIL PATIL		
	REG NO CA/2018/103643		
CLIENT:			

Govt College
Of Engineering, At-Karad, Dist-Satara

PROJECT:
Proposed SCST Hostel
Building For Govt College
Of Engineering, At-Karad, Dist-Satara

DWG TITLE:

SEPTIC TANK DETAIL

SCALE: CREATED: 04.03.2024

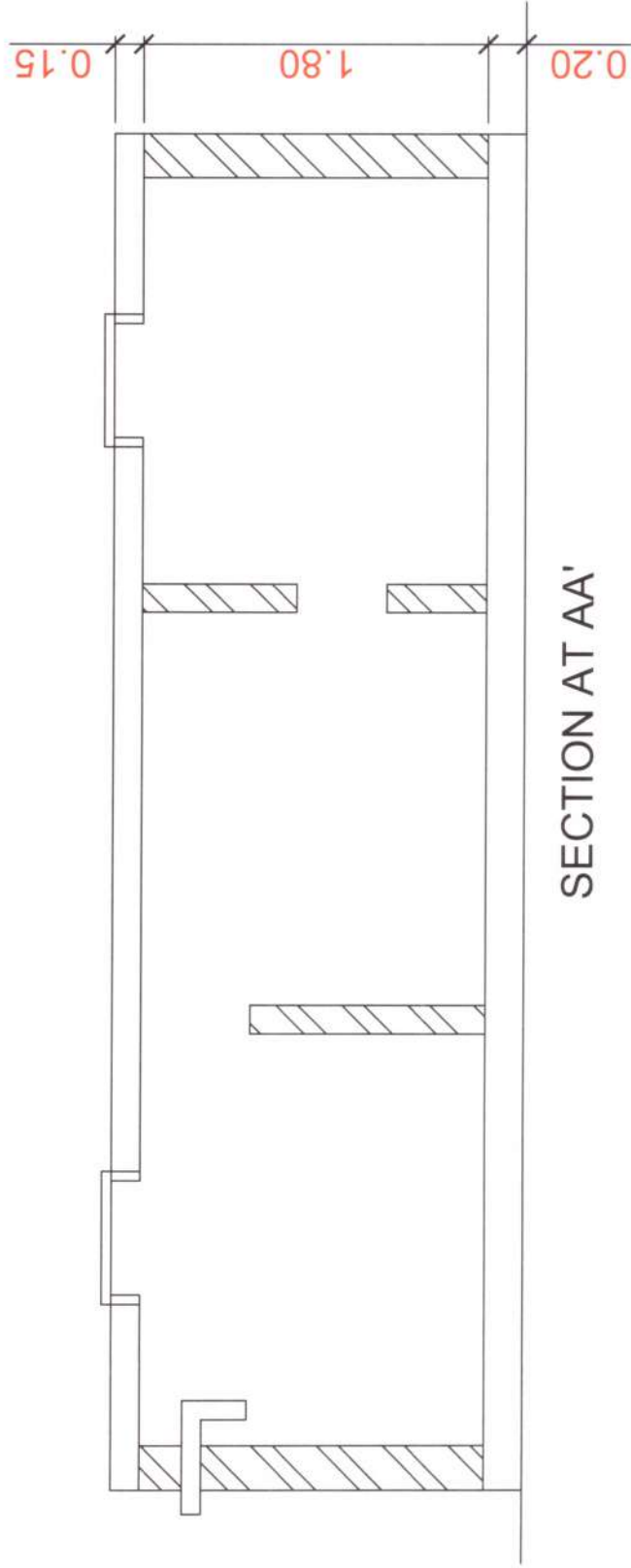
JOB NO: P001

DISCIPLINE: ARCHITECTURE

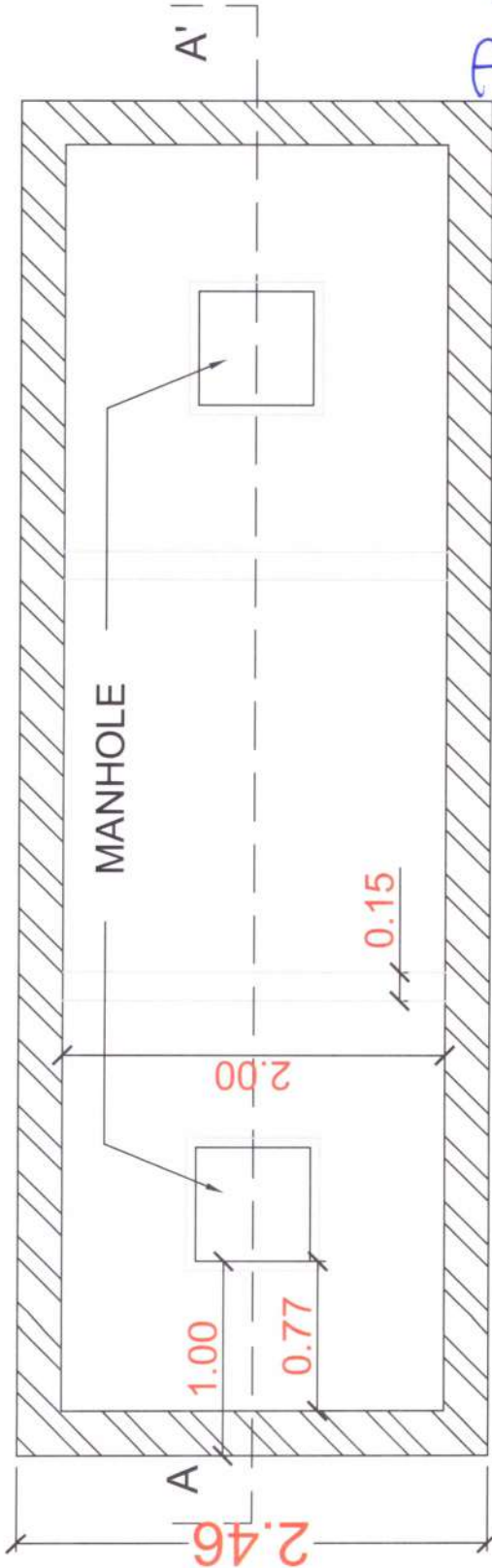
ISSUED FOR INFORMATION

DRAWING NUMBER: 1

P001 A05 106 Revision:



SECTION AT AA'



7.10
PLAN

Principal
Government College of Engineering, Karad

MEMBER SECRETARY
Building Works Committee
Govt. College of Engineering, Karad

Pramil P. Patil
Reg.No. CA/2018/103643
Arch