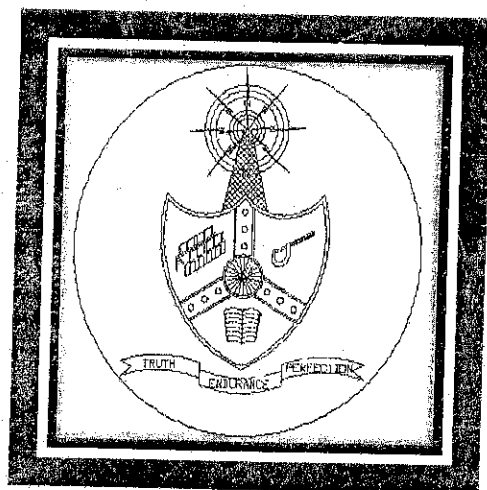


# **8<sup>th</sup> MEETING OF Board of Management**

**Date: 29<sup>th</sup>, March 2016**

**Time: 2.30 pm**

**Place: Government College of Engineering, Karad**



## **ANNUAL BUDGET 2016-17**

**GOVERNMENT COLLEGE OF ENGINEERING, KARAD**  
(An autonomous institute of Government of Maharashtra)

Dist. Satara, Maharashtra, India, PIN: 415124

Tel.: 91- 02164- 271711, 272414, Fax No.: 91- 02164- 271713

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## **Overall strategies for Budget for 2016-17**

- The institute acquired autonomy from academic year 2015-16 and started implementation from July 2015 gradually from first year.
- A detail of curriculum is ready for second year and is to be implemented during 2016-17. Hence, few additional laboratories need to be established and existing laboratory need to be upgraded.
- Three UG programs have been reaccredited and 1 UG program acquired fresh accreditation. Fresh accreditation of 1 more UG program and 6 PG programs is to be obtained during 2016-17. For acquiring accreditation research laboratories for all PG programs are to be established.
- PG accreditation also requires refurbishment of few facilities.
- In order to coordinate academic matters. Separate Dean office needs to be established with required facilities including MIS.
- 10 student clubs are recently formed for nurturing hobbies, interest and creativity of students. Strengthening by providing required funds is proposed.
- New UG program in Computer Science& Engineering and 1 PG programs in same specialization is proposed during 2016-17. It is likely to increase students strength and hence need new additional facilities.
- Filing of 15 patents is proposed during 2016-17.

| Component of<br>Income Expenditure  |  | Budgeted Receipts & Payment Accounts for 2016-17 |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       | Total              |         |         |
|-------------------------------------|--|--------------------------------------------------|--------|--------|--------|--------|--------|-------|--------|-------------------|-------|-------|--------|---------|------|-----|-----------------------|--------------------|---------|---------|
|                                     |  | Income Statement - I.T.S.                        |        |        |        |        |        |       |        | Receipts - I.T.S. |       |       |        |         |      |     |                       |                    |         |         |
|                                     |  | Designated Funds                                 |        |        |        |        |        |       |        | RG-1600 Fund      |       |       |        |         |      |     |                       |                    |         |         |
|                                     |  | Corpus Fund                                      |        |        |        |        |        |       |        | THQP              |       |       |        |         |      |     |                       |                    |         |         |
| F1                                  |  | F2                                               | F3     | F4     | F5     | F6     | F7     | F8    | F9     | F10               | F11   | F12   | F13    | F14     | F15  | F16 | State Govt Assistance | Central Assistance | From    | THQP    |
| Income                              |  |                                                  |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    |         |         |
| Balance on                          |  |                                                  |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    |         |         |
| 29/02/2016                          |  | 490.565                                          | 218.73 | 140.42 | -17.03 | 99.48  | 13.81  | 42.02 | 70.51  | 14.1              | 35.82 | 14.48 | 153.93 | -38.56  | 3.81 |     |                       |                    | 1239.90 |         |
| Academic Receipts                   |  | 143.04                                           | 66.10  | 66.10  | 58.62  | 64.98  | 32.49  | 20.45 | 50.00  | 12.25             | 33.68 | 22.56 |        |         |      |     |                       |                    | 570.27  | 108.21  |
| Grants & Donations                  |  |                                                  |        |        |        |        |        |       |        |                   |       |       | 550.00 | 1814.49 | 0.00 |     |                       |                    | 2364.49 | 1105.16 |
| Income from investments             |  | 30.10                                            |        | 30.00  |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    | 60.10   | 12.77   |
| Other Incomes                       |  |                                                  |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    | 0.00    | 21.04   |
| Total (A)                           |  | 663.71                                           | 284.83 | 236.52 | 41.59  | 164.46 | 46.30  | 62.47 | 120.51 | 26.35             | 69.50 | 37.04 | 703.93 | 1775.93 | 3.81 |     |                       |                    | 4234.76 | 1247.18 |
| Expenditure                         |  |                                                  |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    |         |         |
| Staff Payments & Benefits           |  |                                                  |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    |         |         |
| Academic Expenses Recurring         |  |                                                  | 0.00   |        |        | 111.86 |        |       | 6.00   |                   |       |       |        |         |      |     |                       |                    | 1264.62 | 762.79  |
| Academic Expenses Non Recurring     |  |                                                  |        |        |        |        |        |       | 2.40   |                   |       | 11.53 | 167.84 | 0.00    |      |     |                       |                    | 181.77  | 296.98  |
| Administrative and General Expenses |  |                                                  |        | 154.09 |        |        |        |       | 50.86  |                   |       |       |        |         |      |     |                       |                    | 1232.79 | 296.98  |
| Transportation Expenses             |  |                                                  |        |        |        |        |        |       |        | 2.50              |       |       |        |         |      |     |                       |                    | 141.65  | 127.61  |
| Repairs & maintenance               |  |                                                  |        |        |        |        |        |       |        |                   |       |       |        |         |      |     |                       |                    | 0.00    |         |
| Other Expenses                      |  |                                                  |        |        | 51.45  |        |        |       |        |                   | 21.00 |       |        |         |      |     |                       |                    | 151.91  | 5.23    |
| TOTAL (B)                           |  | 0                                                | 0      | 154.09 | 51.45  | 111.86 | 79.46  | 49.41 | 59.26  | 2.5               | 21    | 11.53 | 693.29 | 1814.49 | 3.81 |     |                       |                    | 79.41   | 35.66   |
| Balance being excess of             |  | 663.71                                           | 284.83 | 82.43  | -9.86  | 52.60  | -33.16 | 13.06 | 61.25  | 23.85             | 48.50 | 25.51 | 10.64  | -38.56  | 0.00 |     |                       |                    | 3052.15 | 1525.25 |

| GOVERNMENT COLLEGE OF ENGINEERING, KARAD                                                                                                                           |                                        |                         |                                       |                                         |                |                                       |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------|---------------------------------------|-----------------------------------------|----------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| RECEIPTS BUDGET 2016-2017                                                                                                                                          |                                        |                         |                                       |                                         |                |                                       |                                                                                                                               |
| Sr. No.                                                                                                                                                            | Items                                  | Balance as on 31.3.2015 | Budgeted Receipts for 2015-16 in lacs | Receipts During 1.4.2015 to 29.2.2016** | Total          | Budgeted Receipts for 2016-17 in lacs | Justification                                                                                                                 |
| 1                                                                                                                                                                  | TUTION FEE                             | 241.9                   | 218.00                                | 52.51                                   | 294.41         | 108.3                                 | First & Second yr shall be under autonomy whose fees are higher, as compared to last yr where only one yr was under autonomy. |
| 2                                                                                                                                                                  | GYMKHANA FEE & GATHERING*              | 46.78                   | 9.97                                  | 9.22                                    | 56             | 7.49                                  |                                                                                                                               |
| 3                                                                                                                                                                  | DEVELOPMENT FEE*                       | 726.75                  | 78.00                                 | 134.39                                  | 861.14         | 264.42                                |                                                                                                                               |
| 4                                                                                                                                                                  | LABORATORY FEE                         | 108.48                  | 24.00                                 | 24.78                                   | 133.26         | 58.62                                 |                                                                                                                               |
| 5                                                                                                                                                                  | T.P.O.                                 | 10.38                   | 1.17                                  | 3.72                                    | 47.58          | 12.25                                 |                                                                                                                               |
| 6                                                                                                                                                                  | LIBRARY FEE                            | 93.3                    | 10.80                                 | 16.94                                   | 110.24         | 50                                    |                                                                                                                               |
| 7                                                                                                                                                                  | INTERNET FEE                           | 28.05                   | 7.65                                  | 12.41                                   | 40.46          | 33.68                                 |                                                                                                                               |
| 8                                                                                                                                                                  | TESTING & IRG                          | 52.67                   | 65.00                                 | 27.55                                   | 78.74          | 30.1                                  |                                                                                                                               |
| 9                                                                                                                                                                  | EXAMINATION FEE                        | --                      | 6.00                                  | 14.93                                   | 14.93          | 22.56                                 | Two years of autonomy                                                                                                         |
| 10                                                                                                                                                                 | HOSTEL                                 | --                      |                                       | 33.64                                   | 33.64          | 36                                    |                                                                                                                               |
| 11                                                                                                                                                                 | ISTE                                   | 1.19                    |                                       | 1.11                                    | 2.30           | 1.25                                  |                                                                                                                               |
| 12                                                                                                                                                                 | IDENTITY CARD FEE                      | --                      |                                       | 0.38                                    | 0.38           | 0.7                                   |                                                                                                                               |
| 13                                                                                                                                                                 | MISC. RECEIPTS (L.C/ LIGHT BILL/OTHER) | --                      |                                       | 0.47                                    | 0.47           | 0.50                                  |                                                                                                                               |
|                                                                                                                                                                    | <b>TOTAL</b>                           | <b>1308.31</b>          | <b>420.59</b>                         | <b>332.06</b>                           | <b>1637.61</b> | <b>638.83</b>                         |                                                                                                                               |
| *Rs.0.49 lacs & Rs.91.77 lacs are still kept in Treasury A/c for Sr.No. 2 and 3 respectively.<br>**Entire Receipts in 2015-16 correspond to receivable of 2014-15. |                                        |                         |                                       |                                         |                |                                       |                                                                                                                               |

| Positions of Different Funds |                                |                               |                                                    |                                                                |                                               |               |                                                    | Justification                                                                                                                 |
|------------------------------|--------------------------------|-------------------------------|----------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|---------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Sr<br>No.                    | Items                          | Balance<br>as on<br>31.3.2015 | Budget<br>ed<br>Receip<br>t 2015-<br>16<br>in lacs | Recei<br>pts<br>Durin<br>g<br>1.4.20<br>15 to<br>29.2.2<br>016 | Expe<br>nditu<br>re<br>upto<br>29.02.<br>2016 | Balanc<br>e   | Budget<br>ed<br>Receip<br>t 2016-<br>17 in<br>lacs |                                                                                                                               |
| 1                            | Corpus Fund F1                 | 399.04                        | 95.82                                              | 77.75                                                          | 0                                             | 476.79        | 143.04                                             | First & Second yr shall be under autonomy whose fees are higher, as compared to last yr where only one yr was under autonomy. |
| 2                            | Faculty Development Fund F2*   | 183.72 - 80.00                | 31.94                                              | 35.1                                                           | 0.09                                          | 138.73        | 66.1                                               |                                                                                                                               |
| 3                            | Equipment Replacement Fund F3* | -19.87                        | 110.30                                             | 38.44<br>+<br>80.00<br>+<br>100.00<br>=<br>218.44              | 81.02                                         | 117.55        | 66.1                                               |                                                                                                                               |
| 4                            | Maintenance Fund F4            | 34.77                         | 31.94                                              | 24.78                                                          | 56.66                                         | 2.89          | 58.62                                              |                                                                                                                               |
| 5                            | Institute Development Fund F5* | 120.39 - 100.00               | 31.94                                              | 30.83                                                          | 51.74                                         | -0.52         | 64.98                                              |                                                                                                                               |
| 6                            | Salary Fund F6                 | 36.42                         | 17.46                                              | 15.41                                                          | 38.02                                         | 13.81         | 32.49                                              |                                                                                                                               |
| <b>TOTAL</b>                 |                                | <b>754.47</b>                 | <b>319.41</b>                                      | <b>402.31</b>                                                  | <b>227.53</b>                                 | <b>749.25</b> | <b>431.33</b>                                      |                                                                                                                               |

\*Finance Committee and BoM have approved transfer of Rs. 80 lacs & Rs. 100 lacs from F2 & F5 to F3 in previous meeting.

#### EXPENDITURE BUDGET 2015-16

##### STATE GOVERNMENT

| Sr<br>No. | Item                      | Budget<br>2015-16 (in<br>lacs) | Amount<br>Spent | Budget 2016-<br>17 (in lacs) | Justification                                                                          |
|-----------|---------------------------|--------------------------------|-----------------|------------------------------|----------------------------------------------------------------------------------------|
| 1         | STATE GOVERNMENT PLAN     | 250.93                         | 38.56           | 705.22                       | Provision of funds from State Govt. for construction of two new buildings and repairs. |
| 2         | STATE GOVERNMENT NON PLAN | 1028.48                        | 1131.32         | 1109.27                      |                                                                                        |

|                                        |              |                        |                                 |                                          |                                 |                                                                                        |
|----------------------------------------|--------------|------------------------|---------------------------------|------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------|
|                                        | <b>TOTAL</b> | <b>1279.41</b>         | <b>1169.88</b>                  | <b>1814.49</b>                           |                                 |                                                                                        |
| <b>STATE GOVERNMENT PLAN - DETAILS</b> |              |                        |                                 |                                          |                                 |                                                                                        |
| <b>Sr. No.</b>                         | <b>Items</b> | <b>Amount Received</b> | <b>Budget 2015-16 (in lacs)</b> | <b>Expenditure (lacs) during 2015-16</b> | <b>Budget 2016-17 (in lacs)</b> | <b>Justification</b>                                                                   |
| 1                                      | EQUIPMENT    | 37.96                  | 51.58                           | 37.96                                    | 37.92                           |                                                                                        |
| 2                                      | CIVIL WORKS  | Nil                    | 190.00                          | Nil                                      | 658.55                          | Provision of funds from State Govt. for construction of two new buildings and repairs. |
| 3                                      | LIBRARY      | 0.6                    | 9.35                            | 0.6                                      | 8.75                            |                                                                                        |
|                                        | <b>TOTAL</b> | <b>38.56</b>           | <b>250.93</b>                   | <b>38.56</b>                             | <b>705.22</b>                   |                                                                                        |

| STATE GOVERNMENT NON-PLAN - DETAILS |              |                          |                 |                                   |                          |
|-------------------------------------|--------------|--------------------------|-----------------|-----------------------------------|--------------------------|
| Sr. No.                             | Items        | Budget 2015-16 (in lacs) | Amount Received | Expenditure (lacs) during 2015-16 | Budget 2016-17 (in lacs) |
| 1                                   | SALARY       | 1047.16                  | 1044.85         | 1044.85                           | 970.12                   |
| 2                                   | NON-SALARY   | 92.62                    | 86.47           | 86.47                             | 139.15                   |
|                                     | <b>TOTAL</b> | <b>1028.48</b>           | <b>1131.32</b>  | <b>1131.32</b>                    | <b>1109.27</b>           |

| LIBRARY FEE |                        |                          |                                   |                          |                      |
|-------------|------------------------|--------------------------|-----------------------------------|--------------------------|----------------------|
| Sr. No.     | Items                  | Budget 2015-16 (in lacs) | Expenditure (lacs) during 2015-16 | Budget 2016-17 (in lacs) | Justification        |
| 1           | BOOKS & JOURNALS       | 39.4                     | 34.64                             | 45.5                     | Ebooks are proposed. |
| 2           | EQUIPMENT              | 8.03                     |                                   | 5.36                     |                      |
| 3           | FURNITURE              | 1                        | 0                                 | 0                        |                      |
| 4           | REFURBISHMENT          | 1.3                      | 0                                 | 0                        |                      |
| 5           | CONSUMABLE/MAINTANANCE | 8.2                      | 1.32                              | 2.4                      |                      |
| 6           | SALARY                 |                          | 3.50                              | 6                        |                      |
|             | <b>TOTAL</b>           | <b>57.93</b>             | <b>39.46</b>                      | <b>59.26</b>             |                      |



| FUND WISE EXPENDITURE BUDGET |                                       |                          |                                   |                          |                                                                                           |
|------------------------------|---------------------------------------|--------------------------|-----------------------------------|--------------------------|-------------------------------------------------------------------------------------------|
| Sr. No.                      | Items                                 | Budget 2015-16 (in lacs) | Expenditure (lacs) during 2015-16 | Budget 2016-17 (in lacs) | Justification                                                                             |
| 1                            | EQUIPMENT REPLACEMENT : EQUIPEMENT*   | 272.66*                  | 81.02                             | 154.09                   | Procurement of few equipment is in process                                                |
| 2                            | EQUIPMENT REPLACEMENT : FURNITURE     | 13.1                     |                                   | 0.00                     |                                                                                           |
| 3                            | MAINTAINANCE : CONSUMABLE/MAINTANACE  | 43.23                    | 56.66                             | 51.45                    | Additional refurbishment was necessary due to accreditation visit to fulfill AICTE norms. |
| 4                            | INSTITUTE DEVELOPMENT : REFURBISHMENT | 23.85                    |                                   | 75.56                    |                                                                                           |
| 5                            | SALARY FUND                           | 17.46                    | 38.02                             | 111.86                   |                                                                                           |
|                              | <b>TOTAL</b>                          | <b>370.3</b>             | <b>175.70</b>                     | <b>392.96</b>            |                                                                                           |

| GYMKHANA FEE |                               |                          |                                   |                          |                                                                               |
|--------------|-------------------------------|--------------------------|-----------------------------------|--------------------------|-------------------------------------------------------------------------------|
| Sr. No.      | Items                         | Budget 2015-16 (in lacs) | Expenditure (lacs) during 2015-16 | Budget 2016-17 (in lacs) | Justification                                                                 |
| 1            | GYMKHANA ACTIVITY / Recurring | 10.75                    | 12.97                             | 29.6                     |                                                                               |
| 2            | FURNITURE/Non Recurring       | 16.67                    | 1.01                              | 19.81                    | Basket ball ground could not be constructed which is proposed during 2016-17. |
| <b>TOTAL</b> |                               | <b>27.42</b>             | <b>13.98</b>                      | <b>49.41</b>             |                                                                               |

| BUDGET FOR OTHER FEES                                              |                 |                          |                                      |                                         |                          |                                                       |
|--------------------------------------------------------------------|-----------------|--------------------------|--------------------------------------|-----------------------------------------|--------------------------|-------------------------------------------------------|
| Sr. No .                                                           | Items           | Budget 2015-16 (in lacs) | Expenditure (in lacs) during 2015-16 | Balance Amount in lacs as on 31-03-2016 | Budget 2016-17 (in lacs) | Justification                                         |
| 1                                                                  | Library Fee     | 57.93                    | 39.46                                | 70.78                                   | 58.52                    |                                                       |
| 2                                                                  | Gymkhana Fee    | 27.42                    | 13.98                                | 42.02                                   | 49.41                    |                                                       |
|                                                                    |                 | 9.76                     | 4.64                                 | 35.82                                   | 21                       | 5 mbps BSNL lease line is to be upgraded to 150 mbps. |
| 3                                                                  | Internet Fee    |                          |                                      |                                         |                          |                                                       |
| 4                                                                  | TPO Fee         | 0*                       | 0                                    | 47.58                                   | 2.5                      |                                                       |
| 5                                                                  | Examination Fee | 9.48                     | 0.45                                 | 9.03                                    | 11.53                    |                                                       |
|                                                                    | <b>TOTAL</b>    | <b>104.59</b>            | <b>58.53</b>                         | <b>205.23</b>                           | <b>142.96</b>            |                                                       |
| *Total expenditure of TPO during 2015-16 shall be debited in TEQIP |                 |                          |                                      |                                         |                          |                                                       |

| GENERAL ASSISTANCE |              |                          |                                      |                                         |                          |                                                          |
|--------------------|--------------|--------------------------|--------------------------------------|-----------------------------------------|--------------------------|----------------------------------------------------------|
| Sr. No.            | Items        | Budget 2015-16 (in lacs) | Expenditure (in lacs) during 2015-16 | Balance Amount in lacs as on 29-02-2016 | Budget 2016-17 (in lacs) | Justification                                            |
| 1                  | MODROB/RPS   | 59.27                    | 24.73                                | 34.54                                   | 3.81                     | PO for 31.13 have already been issued and hence payable. |
| 2                  | FIST         | 0.4                      | 0                                    | 0.4                                     | 0                        |                                                          |
|                    | <b>TOTAL</b> | <b>59.67</b>             | <b>24.73</b>                         | <b>34.94*</b>                           | <b>3.81</b>              |                                                          |

| Expenditure Status IEQIP-II |                 |                    |                                   |                              |                          |                                                                                                                             |
|-----------------------------|-----------------|--------------------|-----------------------------------|------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sr. No.                     | Items           | Allocation in lacs | Expenditure (lacs) during 2015-16 | Balance Amount in lacs as on | Budget 2016-17 (in lacs) | Justification                                                                                                               |
|                             |                 |                    |                                   | 29-02-2016                   |                          |                                                                                                                             |
| 1                           | Procurement     | 550                | 469.95                            | 80.05                        | 318.81                   | Additional Rs. 5 or is likely to be received from MHRD. The amount shall be proportionately distributed among 9 components. |
| 2                           | Assistantship   | 20                 | 25.89                             | -5.89                        | 32.64                    |                                                                                                                             |
| 3                           | R & D           | 100                | 17.09                             | 82.91                        | 41                       |                                                                                                                             |
| 4                           | FSD             | 100                | 62.6                              | 37.4                         | 136.64                   |                                                                                                                             |
| 5                           | III-C           | 40                 | 12.17                             | 27.83                        | 37                       |                                                                                                                             |
| 6                           | CD              | 30                 | 9.45                              | 20.55                        | 0                        |                                                                                                                             |
| 7                           | Reform          | 20                 | 44.94                             | -24.94                       | 13.2                     |                                                                                                                             |
| 8                           | Student Support | 40                 | 69.8                              | -29.8                        | 44                       |                                                                                                                             |
| 9                           | IOC             | 100                | 111.91                            | -11.91                       | 70                       |                                                                                                                             |
|                             | <b>TOTAL</b>    | <b>1000</b>        | <b>823.84</b>                     | <b>176.16</b>                | <b>693.29</b>            |                                                                                                                             |

| GOVERNMENT COLLEGE OF ENGINEERING, KARAD |                                                                                                                                                                                                                                                                              |                   |                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| State Government Plan: Equipment         |                                                                                                                                                                                                                                                                              |                   |                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| LIST OF EQUIPMENT TO BE PURCHASED        |                                                                                                                                                                                                                                                                              |                   |                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Name of Dept: Civil Engineering          |                                                                                                                                                                                                                                                                              |                   |                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sr. No                                   | Proposed Item with specification                                                                                                                                                                                                                                             | Quantity Required | Estimated Unit Rate (Rs. In Lacs) | Estimated total Amount in (Rs. In Lacs) | Justification                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1                                        | High Volume Sampler - Flow Rate: 0.2 to 2 LPM, accuracy 2% of span, least count 0.05 LPM<br>Flow Control: Four inlet, one outlet with needle valves for flow control of each unit<br>Sampling Train: 4 Nos. of 35ml Borosilicate glass impingers<br>Size: 240 x 125 x 350 mm | 1                 | 1                                 | 1                                       | High volume sampler is used for determination of particulate matter in given volume of air. It is designed to collect gaseous pollutant samples (for monitoring SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , Ozone, etc) as well as dust samples simultaneously. It used for experimentation in case of air sampling and air pollution monitoring. With this equipment the students can carry out experimental project work |

|   |                                                                                                                                        |   |     |     |                                                                                                                                                                                                                                                                                                                                                                |
|---|----------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                                        |   |     |     | regarding air pollution.this equipment shall be helpful to carry out consultancy work in association with Maharashtra Pollution Control Board                                                                                                                                                                                                                  |
| 2 | Jar test apparatus with 6 jar assembly High speed jar test apparatus 10-200 R.P.M Special arrangements: Digital timer & R.P.M counter. | 1 | 0.5 | 0.5 | Turbidity is one of the common characterisitices of raw water.In the water treatment process the turbidity is removed by the process of coagulation and flocculation. Various coagulants are used to remove the turbidity. Jar test apparatus is used for determining the optimum coagulant dose in the water treatment process. Jar test experiment is in the |

|   |                                            |   |      |      |                                                                                                                                                                                                                                                                                       |
|---|--------------------------------------------|---|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                            |   |      |      | curriculum of laboratory course of Environmental engineering. The present Jar Test apparatus(with 4 jars) is old one which requires frequent maintenance. The jar test apparatus with 6 jars gives precise optimum coagulant dose. So, the new Jar test apparatus(6 jars) is proposed |
| 3 | Sterlizer (for disinfection of glasswares) | 1 | 0.17 | 0.17 | Sterlizer is equipment used to sterilize the glassware used for MPN test. Most Probable No.(MPN) is test used to determine amount of E-coli bacteria in water.                                                                                                                        |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                   |   |      |      |                                                                                                                                                                    |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Theodolite 20 sec- Direct reading Vernier Transit Theodolite with stand: 175 mm, export quality fitted with Optical Plummet arrangement, showing erect image with Horizontal & Vertical circles containing main scales & Vernier in stainless steel / Suitable metal along with trough or tubular compass with suitable attachment and accessories in wooden box with telescopic aluminum stand & 20 Sec Accuracy | 1 | 0.2  | 0.2  | Theodolite is used for horizontal, vertical angle measurement and for tacheometric survey. This shall be used for study of the same and for surveying practical's. |
| 5 | Theodolite 10 sec -Direct reading Vernier Transit Theodolite with stand: 175 mm, export quality fitted with Optical Plummet arrangement, showing erect image with Horizontal & Vertical circles containing main scales & Vernier in stainless steel / Suitable metal along with trough or tubular compass with suitable attachment and accessories in wooden box with telescopic aluminum stand & 10 Sec Accuracy | 2 | 0.25 | 0.5  | Theodolite is used for horizontal, vertical angle measurement and for tacheometric survey. This shall be used for study of the same and for surveying practicals.  |
| 6 | Autolevel Automatic Level with stand: Make: TOPCON, Model: AT-B4, Magnification: 24X, with telescopic Aluminum stand                                                                                                                                                                                                                                                                                              | 1 | 0.25 | 0.25 | It is used for study of levelling and for practical use                                                                                                            |
| 7 | Plane table-wooden with stand, 75 x 60 cm                                                                                                                                                                                                                                                                                                                                                                         | 3 | 0.08 | 0.24 | Plane table is important for drawing layout of regular or irregular shaped plot                                                                                    |
| 8 | Telescopic alidade with cross hair and eyepiece                                                                                                                                                                                                                                                                                                                                                                   | 2 | 0.05 | 0.1  | It is supplementary instrument for plane table                                                                                                                     |

| Total                                |                                            |                   |                                   |                                         | 2.96                                                                                                            |
|--------------------------------------|--------------------------------------------|-------------------|-----------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Name of Dept: Mechanical Engineering |                                            |                   |                                   |                                         |                                                                                                                 |
| Sr. No                               | Proposed Item with specification           | Quantity Required | Estimated Unit Rate (Rs. In Lacs) | Estimated total Amount in (Rs. In Lacs) | Justification                                                                                                   |
| 1                                    | Gear Pump Model                            | 1                 | 0.50                              | 0.50                                    | Laboratory equipments for Practical Sessions of Fluid & Turbo Machinery Lab, Teaching aids to enhance learning. |
| 2                                    | Hydraulic Accumulator Model                | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 3                                    | Submersible Pump Model                     | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 4                                    | Hydraulic Press Model                      | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 5                                    | Hydraulic Water Pump Model                 | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 6                                    | Jet Pump Model                             | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 7                                    | Reciprocating Pump Set Model               | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 8                                    | MODEL FOR GAS TURBINE                      | 1                 | 0.50                              | 0.50                                    |                                                                                                                 |
| 9                                    | Model of air lift pump                     | 1                 | 0.50                              | 0.50                                    | Demonstration Equipment for I.C. Engine Lab Teaching aids to enhance learning.                                  |
| 10                                   | Two Stroke & Four Stroke Cut Section Model | 1                 | 0.40                              | 0.40                                    |                                                                                                                 |
| 11                                   | Combination Set                            | 1                 | 0.04                              | 0.04                                    | For Laboratory experimental demonstration and measurement in Metrology                                          |
| 12                                   | Bore gauge with dial 10-18 mm LC 0.01 mm   | 1                 | 0.10                              | 0.10                                    |                                                                                                                 |
| 13                                   | Bore gauge with dial 18-35 mm LC 0.01 mm   | 1                 | 0.10                              | 0.10                                    |                                                                                                                 |
| 14                                   | Bore gauge with dial 35-60 mm LC 0.01 mm   | 1                 | 0.10                              | 0.10                                    |                                                                                                                 |
| 15                                   | Magnetic V block (4")                      | 1                 | 0.15                              | 0.15                                    |                                                                                                                 |
| 16                                   | Cast Iron Surface Plate 400 x 400          | 1                 | 0.10                              | 0.10                                    |                                                                                                                 |



|    |                                                                                                                                                                                                     |   |                                                    |      |                                                                                                        |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------|------|--------------------------------------------------------------------------------------------------------|
|    | mm                                                                                                                                                                                                  |   |                                                    |      | y & Quality Control Lab, Teaching aids to enhance learning.                                            |
| 17 | Tool maker's Microscope (30 x) LC 0.01 mm                                                                                                                                                           | 1 | 1.00                                               | 1.00 | Laboratory and Research purpose in Metrology & Quality Control Lab, Teaching aids to enhance learning. |
| 18 | TurboCAD Deluxe : CAD software application for 2D and 3D design and drafting, Platform: Windows, License: Proprietary                                                                               | 1 | 0.10                                               | 0.10 | CAD software for enhancement of technical skills of student                                            |
| 19 | REACH ERP Software: Modules: Manufacturing Management, Order Management , Sales Team Management, Repair Management, Invoicing, Inventory management, Logistics Management, Purchase management etc. | 1 | for smallest plan Rs.0.25 lacs or Rs 600 per month | 0.25 | ERP software for enhancement of technical skills of student                                            |
| 20 | Cut-Section Model Of Demonstration Chassis of four wheel <b>Electric vehicle</b>                                                                                                                    | 1 | 2.50                                               | 2.50 | Laboratory Equipment for                                                                               |
| 21 | Cut- section model of four cylinder CRDI diesel engine with gearbox                                                                                                                                 | 1 | 0.98                                               | 0.98 | Demonstration in Automobile                                                                            |

|                                       |                                  |                   |                                   |                                         | Engineering Laboratory, Teaching aids to enhance learning.                                            |
|---------------------------------------|----------------------------------|-------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------|
| 22                                    | Manual Pallet truck              | 1                 | 0.25                              | 0.25                                    | Equipment handling and transportation.                                                                |
| Total                                 |                                  |                   |                                   | 10.57                                   |                                                                                                       |
| Name of Dept.: Electrical Engineering |                                  |                   |                                   |                                         |                                                                                                       |
| Sr. No                                | Proposed Item with specification | Quantity Required | Estimated Unit Rate (Rs. In Lacs) | Estimated total Amount in (Rs. In Lacs) | Justification                                                                                         |
| 1                                     | AM Transmitter                   | 2                 | 0.3                               | 0.6                                     | *New purchase due to change in curriculum.<br>*For S.Y.(BTECH) revised syllabus for Analog Electronic |
| 2                                     | FM Transmitter                   | 2                 | 0.3                               | 0.6                                     |                                                                                                       |
| 3                                     | Digital Transmitter              | 2                 | 0.3                               | 0.6                                     |                                                                                                       |
| 4                                     | AM Modulator                     | 2                 | 0.25                              | 0.5                                     |                                                                                                       |
| 5                                     | Angle Modulation                 | 2                 | 0.3                               | 0.6                                     |                                                                                                       |
| 6                                     | PCM Modulation                   | 2                 | 0.374                             | 0.748                                   |                                                                                                       |
| 7                                     | Different Types Of Recivers      | 2                 | 0.3                               | 0.6                                     |                                                                                                       |
| 8                                     | FM Modulator                     | 2                 | 0.3                               | 0.6                                     |                                                                                                       |

|      |                                |   |      |      |                                                                                                                                                                                 |
|------|--------------------------------|---|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                |   |      |      | s<br>Subj<br>ect.<br>*.T.<br>E.(El<br>ectri<br>cal)<br>revis<br>ed<br>sylla<br>bus<br>for<br>subje<br>ct<br>com<br>muni<br>catio<br>n<br>engi<br>neeri<br>ng                    |
| 9    | Rheostat (100 $\Omega$ /10 A ) | 4 | 0.22 | 0.88 | *New<br>purchase<br>due<br>to<br>chan<br>ge in<br>curri<br>culu<br>m.<br>*For<br>S.Y.(<br>BTE<br>CH)<br>revis<br>ed<br>sylla<br>bus<br>for<br>Mea<br>sure<br>ment<br>&<br>Instr |
| 10   | Rheostat (100 $\Omega$ /5 A )  | 5 | 0.07 | 0.35 |                                                                                                                                                                                 |
| ✓ 11 | 2 point starter                | 3 | 0.05 | 0.15 |                                                                                                                                                                                 |
| 12   | 3point starter                 | 3 | 0.07 | 0.21 |                                                                                                                                                                                 |
| ✓ 13 | 4 point starter                | 3 | 0.07 | 0.21 |                                                                                                                                                                                 |
| 14   | LCR Meter                      | 2 | 0.08 | 0.16 |                                                                                                                                                                                 |
| 15   | Roarty Resistance Stater       | 2 | 0.1  | 0.2  |                                                                                                                                                                                 |
| 16   | Indutacance load bank          | 3 | 0.33 | 0.99 |                                                                                                                                                                                 |
| 17   | Capacitance load bank          | 3 | 0.33 | 0.99 |                                                                                                                                                                                 |
| 18   | Resitive load bank             | 3 | 0.33 | 0.99 |                                                                                                                                                                                 |

|                                                                      |                                                                                              |                          |                                          |                                                | umentation<br>on<br>Subject.<br>*T.<br>E.(Electrical)<br>revised<br>syllabus<br>for<br>subject<br>Advanced<br>Electrical<br>Measurement |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Total</b>                                                         |                                                                                              |                          |                                          | <b>Rs. 9.98</b>                                |                                                                                                                                         |
| <b>Name of Dept.: Information Technology</b>                         |                                                                                              |                          |                                          |                                                |                                                                                                                                         |
| <b>Sr. No.</b>                                                       | <b>Proposed Item with specification</b>                                                      | <b>Quantity Required</b> | <b>Estimated Unit Rate (Rs. In Lacs)</b> | <b>Estimated total Amount in (Rs. In Lacs)</b> | <b>Justification</b>                                                                                                                    |
| 1                                                                    | Desktop PC (Processor i5, 4GB RAM, 1 TB HDD, preloaded OS, Antivirus, 18" monitor, keyboard) | 10                       | 0.50                                     | 5                                              | For conducting practicals in labs                                                                                                       |
| <b>Total</b>                                                         |                                                                                              |                          |                                          | <b>5</b>                                       |                                                                                                                                         |
| <b>Name of Dept.: Electronics &amp; Telecommunication (E&amp;TC)</b> |                                                                                              |                          |                                          |                                                |                                                                                                                                         |
| <b>Sr. No.</b>                                                       | <b>Proposed Item with specification</b>                                                      | <b>Qty. Required</b>     | <b>Estimated Unit Rate (Rs. In Lacs)</b> | <b>Estimated Amount (Rs. In Lacs)</b>          | <b>Justification</b>                                                                                                                    |

| 1                                | Direct Sequence Spread Spectrum trainer Kit (Built in Transmitter and Receiver), Parity checking, Error detection modules                             | 2                 | 0.12                              | 0.24                                   | For Third year Students practical and for understanding basics of Digital Communication |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------|
| 2                                | Fast and Slow Frequency Hopping Trainer                                                                                                               | 2                 | 0.12                              | 0.24                                   |                                                                                         |
| 3                                | Delta Modulation : Message signal 1(500hz 0-2.5V) message signal 2(1Khz Amp.0-2.5v) sampling freq. 256K/128K/64K/32K/16K amp 5v supply voltage +/-12V | 2                 | 0.1                               | 0.2                                    |                                                                                         |
| 4                                | Adaptive Delta Modulation Sampling freq.(16K to 256K) supply voltage +/-12V                                                                           | 2                 | 0.1                               | 0.2                                    |                                                                                         |
| 5                                | PN Sequence Generator Trainer Kit(No of bits /symbol 2,4 Length of PN Sequence:8/16/32)                                                               | 2                 | 0.15                              | 0.3                                    |                                                                                         |
| 6                                | Adaptive Differential Pulse Code Modulation                                                                                                           | 2                 | 0.1                               | 0.2                                    |                                                                                         |
| 7                                | Function Generators 10Mhz                                                                                                                             | 5                 | 0.099                             | 0.495                                  | For Electronic Circuit Design and Analysis( SE/TE/B E)                                  |
| 8                                | CRO 40Mhz/Dual Trace Two channel                                                                                                                      | 5                 | 0.18                              | 0.9                                    |                                                                                         |
| 9                                | Power Supply(0-30v,2 A)                                                                                                                               | 5                 | 0.18                              | 0.9                                    |                                                                                         |
| 10                               | Fiber optical Trainer : Wavelength of Light source 850nm and 660nm(Transmitter) Receiver side Photodetectoer and Transisitor                          | 3                 | 0.3                               | 0.9                                    |                                                                                         |
| Total                            |                                                                                                                                                       |                   |                                   | 4.575                                  |                                                                                         |
| Name of Dept.: Applied Mechanics |                                                                                                                                                       |                   |                                   |                                        |                                                                                         |
| Sr. No                           | Proposed Item with specification                                                                                                                      | Quantity Required | Estimated Unit Rate (Rs. In Lacs) | Estimated total Amount in(Rs. In Lacs) | Justification                                                                           |
| 1                                | Mortar Moulds as per IS standard                                                                                                                      | 18                | 0.03                              | 0.55                                   | For UG Practicals , Testing / Consultancy work                                          |

|                                                |                                                                                                                     |                                                                                                                                                                                                                          |                   |                                     |                                       |                                                            |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|---------------------------------------|------------------------------------------------------------|
| 7                                              | 2                                                                                                                   | Shear Moulds as per Drawin and specification given below size 150 x 150 x 450mm in cast Iron with handle, Thickness of middle plates 25mm, with removable bolts, thickness of side plates 12mm, complete in all respect. | 6                 | 0.09                                | 0.54                                  | For UG Practicals PG research work in Concrete Testing Lab |
| Total                                          |                                                                                                                     |                                                                                                                                                                                                                          |                   |                                     | 1.09                                  |                                                            |
| Name of Dept.: Master of Computer Applications |                                                                                                                     |                                                                                                                                                                                                                          |                   |                                     |                                       |                                                            |
| Sr. No                                         | Proposed Item with specification                                                                                    |                                                                                                                                                                                                                          | Qty. Required     | Estima ted Unit Rate (Rs. In Lacs ) | Estimate Amount (Rs. In Lacs )        | Justificat ion                                             |
| 1                                              | Laptop Processor Ci5 3230M 2.6GHz (3rd Gen), 1TB HDD,4GB DDR3 with preloaded Windows 8 O.S. OR latest configuration |                                                                                                                                                                                                                          | 6                 | 0.50                                | 3.00                                  |                                                            |
| Total                                          |                                                                                                                     |                                                                                                                                                                                                                          |                   |                                     | 3.00                                  |                                                            |
| Name of Dept.: Workshop                        |                                                                                                                     |                                                                                                                                                                                                                          |                   |                                     |                                       |                                                            |
| Sr. No                                         | Proposed Item with specification                                                                                    |                                                                                                                                                                                                                          | Quantity Required | Estima ted Unit Rate (Rs. In Lacs)  | Estimate d total Amount (Rs. In Lacs) | Justificat ion                                             |
| 1                                              | Hand Grinder ( 4 Inch )                                                                                             |                                                                                                                                                                                                                          | 1                 | 0.1                                 | 0.1                                   | We have only one machine which is not enough to work       |
| 2                                              | Surface and thickness Planar ( 12 Inch) with attachment                                                             |                                                                                                                                                                                                                          | 1                 | 1.5                                 | 1.5                                   | can be used for work orders                                |
| 3                                              | Hand Circular Saw Machine                                                                                           |                                                                                                                                                                                                                          | 5                 | 0.1                                 | 0.5                                   | can be used for work orders                                |
| 4                                              | Desktop Computer                                                                                                    |                                                                                                                                                                                                                          | 3                 | 0.45                                | 1.35                                  | for office work                                            |

| 5                            | Printer                                 | 1                        | 0.08                                     | 0.08                                           | for office work      |
|------------------------------|-----------------------------------------|--------------------------|------------------------------------------|------------------------------------------------|----------------------|
| 6                            | Scanner                                 | 1                        | 0.07                                     | 0.07                                           | for office work      |
| <b>Total</b>                 |                                         |                          |                                          | <b>3.6</b>                                     |                      |
| <b>Name of Dept.: Office</b> |                                         |                          |                                          |                                                |                      |
| <b>Sr. No</b>                | <b>Proposed Item with specification</b> | <b>Quantity Required</b> | <b>Estimated Unit Rate (Rs. In Lacs)</b> | <b>Estimated total Amount in (Rs. In Lacs)</b> | <b>Justification</b> |
| 1                            | Laserjet printer                        | 5                        | 0.08                                     | 0.4                                            | for office purpose   |
| 2                            | All in one printer                      | 1                        | 0.35                                     | 0.35                                           |                      |
| <b>Total</b>                 |                                         |                          |                                          | <b>0.75</b>                                    |                      |
| <b>Grant Total</b>           |                                         |                          |                                          | <b>37.92</b>                                   |                      |

# GOVERNMENT COLLEGE OF ENGINEERING, KARAD

## State Govt. Plan: Civil Works

| Sr. No.      | Name of building                             | Estimated Cost (Rs. In Lakhs) | Amount received | Expenditure so far | Proposed Budget (Rs. In Lakhs) |
|--------------|----------------------------------------------|-------------------------------|-----------------|--------------------|--------------------------------|
| 1            | EnTC Building                                | 829.72                        | 0               | 0                  | 100                            |
| 2            | Library                                      | 764.19                        | 0               | 0                  | 100                            |
| 3            | Repairs of Electrical installation           | 290                           | 71.39           | 0                  | 188.01                         |
| 4            | Repairs of Residential and academic building | 270                           | 0               | 0                  | 270.54                         |
| <b>Total</b> |                                              | <b>2153.91</b>                | <b>71.39</b>    | <b>0</b>           | <b>658.55</b>                  |

## 3. State Govt. Plan: Library

| Sr. No.          | Particulars            | Budget 2015-16 | Amount Received | Expenditure so far | Proposed Budget Rs. in Lacs |
|------------------|------------------------|----------------|-----------------|--------------------|-----------------------------|
| A                | Development of Library | 3              | 0.6             | 0.6                | 3                           |
| B                | Book Bank              | 2              | 0               | 0                  | 2                           |
| C                | Book Bank (SWBC)       | 4.35           | 4.35            | 4.35               | 3.75                        |
| <b>Total Rs.</b> |                        | <b>9.35</b>    | <b>4.95</b>     | <b>4.95</b>        | <b>8.75</b>                 |

## 4. State Govt. Non Plan

| Sr. No.      | Component                                | Budget 2015-16 | Receipts       | Expenditure up to 29-02-2016 | Budget 2016-17 |
|--------------|------------------------------------------|----------------|----------------|------------------------------|----------------|
| 1            | Salary                                   | 870.67         | 1219.4         | 1044.85                      | 970            |
| 2            | Travelling Expenses                      | 1.9            | 0.75           | 0.58                         | 1.85           |
| 3            | Office Expenses                          | 10             | 4.29           | 4.2                          | 6              |
| 4            | Electric & Telephone/Water Charges/taxes | 54.6           | 59.49          | 61.87                        | 53             |
| 5            | Contractual Service                      | 48             | 11.23          | 9.69                         | 39             |
| 6            | PP & SS                                  | 36             | 11.7           | 10.13                        | 37             |
| 7            | Material & Supplies                      | 7.5            | 0              | 0                            | 2.3            |
| <b>Total</b> |                                          | <b>1028.67</b> | <b>1306.86</b> | <b>1131.32</b>               | <b>1109.15</b> |



| 5. Institute Level Fund - Central Library                                        |                                                                                    |                               |                               |                                  |                                                                                 |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------------------------------------------------------|
| 8. Library Fee (Books/Furniture, Journals, Software & equipments, refurbishment) |                                                                                    |                               |                               |                                  |                                                                                 |
| Library Books                                                                    |                                                                                    |                               |                               |                                  |                                                                                 |
| Sr. No.                                                                          | Author                                                                             | Title, Publisher              | Total Cost Rs. In Laes        |                                  |                                                                                 |
| 1                                                                                | Dev. Of Library                                                                    | Separate list attached        | 1                             |                                  |                                                                                 |
| 2                                                                                | Book Bank                                                                          |                               | 1                             |                                  |                                                                                 |
| Total                                                                            |                                                                                    |                               | 2                             |                                  |                                                                                 |
| Journals : Online                                                                |                                                                                    |                               |                               |                                  |                                                                                 |
| Sr. No.                                                                          | Name of Journal                                                                    | Type (Online/Hard Copy)       | Quantity                      | Subscription Cost                |                                                                                 |
| 1                                                                                | IEEE- IEL Growth Plan                                                              | Online                        | 145                           | 21                               |                                                                                 |
| 2                                                                                | ASCE E Journals package 34 Journals + Back file to1983                             | Online                        | 34                            | 2.5                              |                                                                                 |
| 3                                                                                | ASME E Journals package 27 Journals + Back file to2000                             | Online                        | 27                            | 2                                |                                                                                 |
| 4                                                                                | Springer                                                                           | Online                        | 586                           | 5                                |                                                                                 |
| 5                                                                                | Elsevier science direct                                                            | Online                        | 275                           | 5.5                              |                                                                                 |
| Total                                                                            |                                                                                    |                               | 36                            |                                  |                                                                                 |
| E-books                                                                          |                                                                                    |                               |                               |                                  |                                                                                 |
| Sr. No.                                                                          | Name of item                                                                       | Brief Specifications          | Quantity                      | Total Estimated Cost(Rs) in Laes | Justification for Procurement                                                   |
| 1                                                                                | e-books                                                                            | e-books for various publisher | AS Per Requirement From Depts | 5                                | e-books useful for Project, Seminar & Research work for UG/PG Student & Faculty |
| Total                                                                            |                                                                                    |                               | 5                             |                                  |                                                                                 |
| Print Journals                                                                   |                                                                                    |                               |                               |                                  |                                                                                 |
| Sr. No.                                                                          | Name of Journal                                                                    |                               | Type (Hard Copy)              | Subscription Cost In Rs.         |                                                                                 |
| CIVIL                                                                            |                                                                                    |                               |                               |                                  |                                                                                 |
| 1                                                                                | NICMAR Journal of construction Management                                          |                               | Jan To Dec 2017               | 0.02                             |                                                                                 |
| 2                                                                                | Environmental Pollution control Journal                                            |                               | Jan To Dec 2017               | 0.01                             |                                                                                 |
| 3                                                                                | IEJ: Civil, Architectural Engg., Environmental Engg.,agricultural Engg.,(Series A) |                               | Jan To Dec 2017               | 0.06                             |                                                                                 |

|                   |                                                                                           |                    |      |
|-------------------|-------------------------------------------------------------------------------------------|--------------------|------|
| 4                 | TERI Information Digest on Energy & Environment                                           | Jan To Dec 2017    | 0.02 |
| 5                 | Indian Geotechnical Journal                                                               | Jan To Dec 2017    | 0.03 |
| 6                 | Indian Road Congress                                                                      | Jan To Dec 2017    | 0.01 |
| 7                 | Indian of Water Works Association Journal                                                 | Jan To Dec 2017    | 0.01 |
| 8                 | Indian Concrete Journal                                                                   | Jan To Dec 2017    | 0.02 |
| 9                 | Journal of Structural Engineering                                                         | Jan To Dec 2017    | 0.02 |
| 10                | ACI Structural Journal                                                                    | Jan To Dec 2017    | 0.28 |
| 11                | ACI Material Journal                                                                      | Jan To Dec 2017    |      |
| 12                | ACI Concrete Journal                                                                      | Jan To Dec 2017    |      |
| 13                | Bulletin of Material Science                                                              | Jan To Dec 2017    | 0.01 |
| 14                | Journal Environmental Science & Engg.,                                                    | Jan To Dec 2017    | 0.02 |
| 15                | Journal of Geological Society of India                                                    | Jan To Dec 2017    | 0.06 |
| 16                | Civil Engg. & Construction Review                                                         | Jun-16 - May 2017  | 0.02 |
| 17                | New Building Materials & Construction World                                               | Jun-16 - May 2017  | 0.02 |
| <b>Electrical</b> |                                                                                           |                    |      |
| 18                | IEJ: Electrical, Electronics & Telecommunication, Computer, (Series B)                    | Jan To Dec 2017    | 0.06 |
| 19                | Journal o Energy Storage & Conversion                                                     | Jan To Dec 2017    | 0.03 |
| 20                | Power line                                                                                | Jan To Dec 2017    | 0.02 |
| 21                | Journal of International Association on Electricity Generation Transmissin & Distribution | Jan To Dec 2017    | 0.01 |
| 22                | Electrical India                                                                          | Sept-16 - Aug-2017 | 0.02 |
| <b>ENIC</b>       |                                                                                           |                    |      |
| 23                | International Journal of Electronics & Telecommunications                                 | Jan To Dec 2017    | 0.03 |
| 24                | IUP Electrical & Electronics Engineering                                                  | Jun-16 - May 2017  | 0.01 |
| 25                | Electronics For You                                                                       | Sept-16 - Aug-2017 | 0.01 |
| 26                | Telnet                                                                                    | Jun-16 - May 2017  | 0.01 |
| 27                | IUP Telecommunication                                                                     | May-15 To Apr-2016 | 0.01 |
| <b>MCA</b>        |                                                                                           |                    |      |
| 28                | International journal of computer Science and Information Technology                      | Jan To Dec 2017    | 0.03 |
| 29                | International journal of Information Technology and Database Systems                      | Jan To Dec 2017    | 0.03 |
| 30                | International journal of Intelligent Information Processing                               | Jan To Dec 2017    | 0.03 |
| 31                | International journal of information Analysis and Processing                              | Jan To Dec 2017    | 0.03 |

|                   |                                                                                |                    |      |
|-------------------|--------------------------------------------------------------------------------|--------------------|------|
| 32                | International journal of Applied Artificial Intelligence in Engineering System | Jan To Dec 2017    | 0.03 |
| 33                | International journal of Computational Intelligence Research and Applications  | Jan To Dec 2017    | 0.03 |
| 34                | International journal of Computer Engineering and Software Technology          | Jan To Dec 2017    | 0.03 |
| 35                | International journal of Computer Science and Communication                    | Jan To Dec 2017    | 0.03 |
| 36                | International journal of Soft Computing and Bioinformatics                     | Jan To Dec 2017    | 0.03 |
| 37                | International journal of Image Processing and Applications                     | Jan To Dec 2017    | 0.03 |
| 38                | CSI Communications                                                             | Jan To Dec 2017    | 0.01 |
| 39                | Linux for You (Now:Open Source For You)                                        | Sept-16 - Aug-2017 | 0.01 |
| 40                | Digit                                                                          | Jun-16 - May 2017  | 0.03 |
| 41                | Data Quest                                                                     | Jun-16 - May 2017  | 0.02 |
| 42                | Developer IQ                                                                   | Jun-16 - May 2017  | 0.02 |
| <b>IT</b>         |                                                                                |                    |      |
| 43                | Indian Journal of Networks and Applications                                    | Jan To Dec 2017    | 0.03 |
| 44                | Indian Journal of Advances in Computer Science and Technology                  | Jan To Dec 2017    | 0.03 |
| 45                | Indian Journal of Information Security and Computer                            | Jan To Dec 2017    | 0.03 |
| 46                | Indian Journal of Wireless and Mobile Communication                            | Jan To Dec 2017    | 0.03 |
| 47                | Indian Journal of Computing and High Speed Networks                            | Jan To Dec 2017    | 0.03 |
| 48                | Indian Journal in Computer Simulation                                          | Jan To Dec 2017    | 0.03 |
| <b>Mechanical</b> |                                                                                |                    |      |
| 49                | Refrigeration & Air Conditioning Journal (ASHRAE Mumbai Chapter)               | Jan To Dec 2017    | 0.05 |
| 50                | IEJ: Mechanical, Production, Aerospace, Marine Engg.(Series C)                 | Jan To Dec 2017    | 0.06 |
| 51                | Manufacturing Technology Today (CMTI)                                          | Jan To Dec 2017    | 0.01 |
| 52                | Journal of Scientific & Industrial Research                                    | Jan To Dec 2017    | 0.04 |
| 53                | Journal of Entrepreneurship                                                    | Jan To Dec 2017    | 0.03 |
| 54                | Indian Journal of Engg., & Materials Sciences                                  | Jan To Dec 2017    | 0.02 |
| 55                | IEJ-Metallurgical & Material/Mining Series: D                                  | Jan To Dec 2017    | 0.03 |
| 56                | Power Engineering Journal                                                      | Jan To Dec 2017    | 0.01 |
| 57                | Overdrive                                                                      | Jun-16 - May 2017  | 0.02 |

| Science                   |                                                  |                                                                                                        |                                    |                                |                               |                                    |
|---------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|-------------------------------|------------------------------------|
| 58                        | Pramana Journal of Physics                       | Jan To Dec 2017                                                                                        | 0.012                              |                                |                               |                                    |
| 59                        | Resonance (Journal of Science)                   | Jan To Dec 2017                                                                                        | 0.008                              |                                |                               |                                    |
| 60                        | Indian Journal of Physics                        | Jan To Dec 2017                                                                                        | 0.058                              |                                |                               |                                    |
| 61                        | Journal of Space Craft Technology                | Jan To Dec 2017                                                                                        | 0.010                              |                                |                               |                                    |
| 62                        | Advances in Fuzzy Mathematics                    | Jan To Dec 2017                                                                                        | 0.030                              |                                |                               |                                    |
| Interdisciplinary         |                                                  |                                                                                                        |                                    |                                |                               |                                    |
| 63                        | Indian Journal of Technical Education (ISTE)     | Jan To Dec 2017                                                                                        | 0.010                              |                                |                               |                                    |
| 64                        | University News                                  | Jun-16 - May 2017                                                                                      | 0.010                              |                                |                               |                                    |
| Grand Total Rs. (in Lacs) |                                                  |                                                                                                        | 1.76                               |                                |                               |                                    |
| Equipment                 |                                                  |                                                                                                        |                                    |                                |                               |                                    |
| Sr. No.                   | Proposed Item with specification                 | Qty. Required                                                                                          | Estimated Unit Rate (Rs. In Lacs ) | Estimate Amount (Rs. In Lacs ) | Justification                 |                                    |
|                           |                                                  |                                                                                                        |                                    |                                | Replacement/New/Modernisation |                                    |
| 1                         | SAN/NAS Server                                   | 1                                                                                                      | 5                                  | 5                              | Intranet                      |                                    |
| 2                         | Computer Hard Disk 5 TB For NPTEL Videos Storage | 2                                                                                                      | 0.18                               | 0.36                           | NPTEL Videos Storage          |                                    |
| Total                     |                                                  |                                                                                                        |                                    | 5.36                           |                               |                                    |
| Maintenance Fund          |                                                  |                                                                                                        |                                    |                                |                               |                                    |
| Sr. No.                   | Name of Dept.                                    | Details of Repairs/ Material & Supply/ Major-Minor Project/ Maintenance, AMC, lab consumables, spares, | Unit Cost                          | Quantity                       | Total (Rs. in lacs)           | Justification                      |
| 1                         | Central Library                                  | Slim 21 AMC                                                                                            | 0.25                               | 1                              | 0.25                          | Slim S/w Support & Upgradation     |
| 2                         | Central Library                                  | Xerox M/C AMC                                                                                          | 0.15                               | 1                              | 0.15                          | Maintenance                        |
| Total                     |                                                  |                                                                                                        |                                    |                                | 0.4                           |                                    |
| Recurring Expenditure     |                                                  |                                                                                                        |                                    |                                |                               |                                    |
| Sr.No                     | Particulars                                      |                                                                                                        |                                    |                                |                               | Estimated Unit Rate (Rs. In Lacs ) |
| 1                         | Newspapers, Periodicals and other Magzines       |                                                                                                        |                                    |                                |                               | 1                                  |
| 2                         | Binding: Books & Journals, Lib. Stationary       |                                                                                                        |                                    |                                |                               | 1                                  |
| 3                         | Manpower (Skilled 2 and Unskilled 4              |                                                                                                        |                                    |                                |                               | 5                                  |

|   |                                        |              |
|---|----------------------------------------|--------------|
| 4 | Renumeration for Earn and Learn Scheme | 1            |
|   | <b>Total</b>                           | <b>8</b>     |
|   | <b>Grant Total</b>                     | <b>58.52</b> |

| Institute Level Funds: Equipment Replacement       |                                                                                                                                                                                                                                                                                                                                                                    |               |                                |                             |                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. Equipment Replacement Fund : ( For equipments ) |                                                                                                                                                                                                                                                                                                                                                                    |               |                                |                             |                                                                                                                                                                                                                                                                     |
| Name of Dept.: Civil Engineering                   |                                                                                                                                                                                                                                                                                                                                                                    |               |                                |                             |                                                                                                                                                                                                                                                                     |
| Sr. No.                                            | Proposed Item with specification                                                                                                                                                                                                                                                                                                                                   | Qty. Required | Estimated Unit Rate (In Lacs ) | Estimated Amount (In Lacs ) | Justification                                                                                                                                                                                                                                                       |
| 1                                                  | Direct Shear Apparatus -<br>Operation – Motorized – Digital<br>Rates of Strain – 72 speeds<br>ranging from 0.0014 to 10.16<br>mm/min<br>Specimen Size – 30 x 30 x 15<br>cm<br>Change gears – 12<br>Shear Load Capacity – 50 kN<br>Vertical Stress – 500 kN/m <sup>2</sup><br>Power – 415V, 50 Hz, Three<br>Phase, AC supply                                        | 1             | 7.5                            | 7.5                         | The equipment is used for Direct Shear Laboratory Test of Soil Samples. The test measures peak & residual Direct Shear Strength as a function of stress normal to the sheared plane. The equipment can be used for testing of sampels of large infrastructure site. |
| 2                                                  | Section of submersible boring pump                                                                                                                                                                                                                                                                                                                                 | 1             | 0.15                           | 0.15                        | For demonstration in fluid mechanics lab                                                                                                                                                                                                                            |
| 3                                                  | Printers                                                                                                                                                                                                                                                                                                                                                           | 4             | 0.1                            | 0.4                         | For Faculty and student's use                                                                                                                                                                                                                                       |
| 4                                                  | Collar mic (Standard make)                                                                                                                                                                                                                                                                                                                                         | 2             | 0.05                           | 0.1                         | For conducting programme such as STTP, Conferences etc.                                                                                                                                                                                                             |
| 5                                                  | Digital planimeter KP 90 series                                                                                                                                                                                                                                                                                                                                    | 1             | 0.5                            | 0.5                         | It is used for determining the area of irregular shaped plan on a paper                                                                                                                                                                                             |
| 6                                                  | Impact testing machine- The Sturdy Construction consists of a base and support columns to form a rigid framework around the quick release trigger mechanism to ensure an effective free fall of the hammer during test. The free fall can be adjusted through 380±5mm. The hammer is provided with a locking arrangement. Aggregate impact value test apparatus is | 1             | 0.2                            | 0.2                         | Impact Testing machine is used for determining the aggregate impact value.It will be used for academic experimentation and testing                                                                                                                                  |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |       |               |                                                                                                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | supplied complete with a cylindrical measure of 75mm dia x 50mm depth, an automatic blow counter and a tamping rod.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |       |               |                                                                                                                                                                                                  |
| 7                                     | UPS 10 kva - One 10 KVA three phase input & three phase output, on-line, double conversion, continuous operation, solid-state, Uninterruptible Power Supply (UPS) along with external isolation transformer & battery bank for One hour back                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 | 2     | 2             | Electrical backup for lab computers                                                                                                                                                              |
| 8                                     | Prismatic compass- Least Count 30 mins., 100 mm dia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4 | 0.024 | 0.096         | Prismatic compass is used for determining bearing and included angles.                                                                                                                           |
| 9                                     | Bitumen Mixer- The apparatus comprises of A motor driven mixer which simultaneously imparts two motions to the mixing paddle i.e. revolving and planetary. A two speed gearbox is incorporated in the drive which makes the paddle revolve at approximately 140 and 285rpm with corresponding planetary motion of 62 and 125rpm respectively, A stainless steel mixing paddle of the specified shape and dimension which can be attached or removed easily, A stainless steel mixing bowl of about 6Ltr capacity fitted with Heating Jacket for Heating of Sample at the Bottom of bowl with the thermostat controller. The mixing bowl can be held with the mixing apparatus and its height is adjustable | 1 | 0.7   | 0.7           | Bitumen Laboratory Mixer for mixing of Bitumen for making different types of test specimens for mix design in the laboratory. For practicals of transportation engineering and consultancy work. |
| <b>Total</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |       | <b>11,646</b> |                                                                                                                                                                                                  |
| <b>Name of Dept.: Mechanical Engg</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |       |               |                                                                                                                                                                                                  |

| Sr. No. | Proposed Item with specifications                                                                                                                                                                                                                   | Qty. Required | Estimated Unit Rate (Rs. In Lacs) | Estimated Amount (Rs. In Lacs) | Justification Replacement/New/Modernisation                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Centrifugal Blower Test Rig: Blower - Spiral casing with three interchangeable impellers,. Drive Motor-1 HP DC motor, 3000 RPM, Digital Speed indicator, Ventura with water manometer                                                               | 1             | 0.85                              | 0.85                           | Laboratory equipment used for practicals at SE level in Fluid Machines Lab                                                                                                          |
| 2       | Auto collimator with Angle Dekkor: LC 1 min wit 180 x 250 mm harden and ground base plate & stand, three angle gauges, optical square prism                                                                                                         | 1             | 2.00                              | 2.00                           | Laboratory equipments for demonstration and measurment mentioned in curriculum at TE level in Metrology & Quality Control Lab, to provide feel to the students of practical aspects |
| 3       | Bore gauge with dial 50-150 mm LC 0.01 mm                                                                                                                                                                                                           | 1             | 0.10                              | 0.10                           |                                                                                                                                                                                     |
| 4       | Clinometer                                                                                                                                                                                                                                          | 1             | 0.15                              | 0.15                           |                                                                                                                                                                                     |
| 8       | Spilt AC: 1.5 ton, 3/4/5 star Split Air Conditioner with Voltage Stabilizer, Nominal Capacity: 1.5 ton Cooling capacity: 5.25 kW $\pm$ 2%(6000 Kcal/hr), Electricity input: 230V/50Hz/Single Phase, Compressor: Rotary type                         | 2             | 0.40                              | 0.80                           | Upgradation of CAD/CAM Lab                                                                                                                                                          |
| 9       | Desktop Computer                                                                                                                                                                                                                                    | 20            | 0.35                              | 7.00                           |                                                                                                                                                                                     |
| 10      | LCD Projector with sealing accessories Epson model EBX 14                                                                                                                                                                                           | 2             | 0.40                              | 0.80                           |                                                                                                                                                                                     |
| 11      | Image analyzer & microscope: Digital Color Camera (5 Mpixel), Camera adapter, Software: Grain size analysis, Phase Analysis, Inclusion Analysis, Cast Iron Analysis, Aluminum and alloys Analysis, Banding Analysis, Decarburization depth Analysis | 1             | 6.00                              | 6.00                           | Laboratory equipment used for practicals at SE level in Metallurgy Lab & M. Tech (Mech - Production) Courses/ Disseration. More emphasis on metallurgy as recommended in -          |



|    |                                                                                                                                                                                                                                                                               |   |      |      |                                                                                          |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------|------------------------------------------------------------------------------------------|
| 12 | Microhardness tester :<br>Test load: 10 gm to 1000 gm,<br>Dwell time: 5-99 second<br>settable, 10X for scanning &<br>40X for measurement,<br>Membrane keyboard panel or<br>LCD touch screen panel,<br>Imaging system to measure<br>hardness directly on computer              | 1 | 6.00 | 6.00 | academic council.                                                                        |
| 13 | Eriessson cupping test:<br>testing minimum 1 mm metal<br>sheet, Punch diameter: minimum<br>20 mm, minimum 70 mm x 90<br>mm                                                                                                                                                    | 1 | 0.50 | 0.50 |                                                                                          |
| 14 | Cam Analysis Apparatus:<br>Cams: Tangent, Eccentric,<br>Circular Arc type,<br>Followers: Roller, Knife edge,<br>Mushroom, Motor: Variable<br>speed, ½ HP., 0-1500 RPM with<br>speed controller                                                                                | 1 | 0.40 | 0.40 | Laboratory equipment<br>used for practicals at<br>SE level                               |
| 15 | Slip and Creep Measurement<br>Apparatus:<br>Electricity: 0.5 kW, 220 V,<br>Single Phase, Motor: Variable<br>speed DC Motor 1HP, 1500<br>RPM, Flat belts of fixed length<br>of following belt material: Fabric<br>Belt, Canvas Belt, Leather Belt                              | 1 | 0.50 | 0.50 |                                                                                          |
| 16 | Epicyclic Gear Train and<br>Holding Torque Apparatus:<br>Power Supply : 220 V AC,<br>Single Phase, Floor Area : 1.5 x<br>2 m, Internal Type Epicyclic<br>Gear Train A Compact gear<br>train, Motor : Variable speed DC<br>Motor, 1 HP, Speed Control Unit,<br>RPM Measurement | 1 | 0.50 | 0.50 | Laboratory equipment<br>used for practicals at<br>TE level in Theory of<br>Machines Lab  |
| 17 | Millig Fixture                                                                                                                                                                                                                                                                | 1 | 0.10 | 0.10 | Laboratory equipment<br>used for practicals at<br>SE level in Machine<br>Tool laboratory |
| 18 | Drilling Jig                                                                                                                                                                                                                                                                  | 1 | 0.10 | 0.10 |                                                                                          |

| 19                                           | Induction melting furnace<br>Capacity: 5 kg, Temperature:<br>1650°C, Input Power: 415V, 50<br>Hz, Melting rate:100 kg/Hr<br>Input KVA:90,Nominal<br>frequency: minimum 1000 Hz | 1                        | 3.00                                            | 3.00                                  |                                                                                                |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------|
| 20                                           | Air Conditioning Test Rig:<br>one tonne capacity                                                                                                                               | 1                        | 1.50                                            | 1.50                                  | New additional to<br>Laboratory Set up of<br>Refrigeration & Air<br>Condition Laboratory       |
| <b>TOTAL</b>                                 |                                                                                                                                                                                |                          |                                                 | <b>30.3</b>                           |                                                                                                |
| <b>Name of Dept.: Electrical Engineering</b> |                                                                                                                                                                                |                          |                                                 |                                       |                                                                                                |
| Sr.<br>No.                                   | Proposed Item with<br>specification                                                                                                                                            | Qty.<br>Requ<br>ire<br>d | Estimate<br>d Unit<br>Rate<br>(Rs. In<br>Lacs ) | Estimate<br>Amount<br>(Rs.In<br>Lacs) | Justification                                                                                  |
| 1                                            | Rheostat (50 $\Omega$ /5 A )                                                                                                                                                   | 5                        | 0.07                                            | 0.35                                  | New purchase for<br>Machine lab                                                                |
| 2                                            | Rheostat (500 $\Omega$ / 1.2 A )                                                                                                                                               | 5                        | 0.01                                            | 0.05                                  |                                                                                                |
| 3                                            | Function Generator                                                                                                                                                             | 3                        | 0.35                                            | 1.05                                  | New purchase for<br>conducting practicals<br>in Analog and Digital<br>Electronics lab          |
| 4                                            | Digital Multimeter                                                                                                                                                             | 3                        | 0.1                                             | 0.3                                   |                                                                                                |
| 5                                            | DC Power Supply                                                                                                                                                                | 3                        | 0.3                                             | 0.9                                   |                                                                                                |
| 6                                            | Digital Storage Oscilloscope                                                                                                                                                   | 3                        | 0.9                                             | 2.7                                   |                                                                                                |
| 7                                            | DSB/SSB AM Transmitter<br>Trainer                                                                                                                                              | 3                        | 0.6                                             | 1.8                                   | Neccesity of<br>modernisation of<br>electronics lab that<br>Comment given by<br>NBA Committee. |
| 8                                            | FDM Multi/D Multi Trainer                                                                                                                                                      | 3                        | 0.44                                            | 1.32                                  |                                                                                                |
| 9                                            | PCM Receiver/ Transmitter<br>Trainer                                                                                                                                           | 3                        | 0.45                                            | 1.35                                  |                                                                                                |
| 10                                           | Analog Trainer                                                                                                                                                                 | 3                        | 0.42                                            | 1.26                                  |                                                                                                |
| 11                                           | Analog and Digital<br>Communication Demonstrator<br>Kit                                                                                                                        | 3                        | 0.57                                            | 1.71                                  |                                                                                                |
| 12                                           | 3 $\phi$ Auto Transformer                                                                                                                                                      | 8                        | 0.25                                            | 2                                     | New purchase for<br>conducting practicals<br>in Machine lab                                    |
| 13                                           | 1 $\phi$ Auto Transformer                                                                                                                                                      | 10                       | 0.07                                            | 0.7                                   |                                                                                                |
| 14                                           | Regulated DC Power Supply                                                                                                                                                      | 3                        | 0.2                                             | 0.6                                   |                                                                                                |
| 15                                           | Electronics 3 phase KWH meter<br>(Energy meter)                                                                                                                                | 2                        | 0.044                                           | 0.088                                 |                                                                                                |
| 16                                           | Digital trivector meter                                                                                                                                                        | 2                        | 0.092                                           | 0.184                                 |                                                                                                |
| 17                                           | Digital power factor                                                                                                                                                           | 2                        | 0.03                                            | 0.06                                  | New purchase for<br>conducting practicals                                                      |
| 18                                           | Digital frquency meter                                                                                                                                                         | 2                        | 0.044                                           | 0.088                                 |                                                                                                |

|              |                                                |   |       |              |                                                       |
|--------------|------------------------------------------------|---|-------|--------------|-------------------------------------------------------|
| 19           | Digital lux meter                              | 2 | 0.032 | 0.064        | in Machine lab                                        |
| 20           | Digital 3 phase wattmeter                      | 2 | 0.05  | 0.1          |                                                       |
| 21           | Digital 1 ph. Voltmeter 600V                   | 2 | 0.011 | 0.022        |                                                       |
| 22           | Digital 1 Ph. Ammeter ( 30/5 A )               | 2 | 0.011 | 0.022        |                                                       |
| 23           | Digital single ph. 230 V 5A energy meter       | 2 | 0.013 | 0.026        |                                                       |
| 24           | Digital 3 ph. 440 V 5/10 A 4 wire energy meter | 2 | 0.044 | 0.088        |                                                       |
| 25           | Earth tester ITL 4 spikes                      | 2 | 0.054 | 0.108        |                                                       |
| 26           | Digital 80 A tongtester                        | 2 | 0.022 | 0.044        |                                                       |
| 27           | 8 Chanel DVR                                   | 1 | 0.08  | 0.08         | New purchase for computer lab & Power house           |
| 28           | CCTV Camera                                    | 8 | 0.05  | 0.4          |                                                       |
| 29           | Rheostat (400 $\Omega$ / 1.7 A )               | 6 | 0.05  | 0.3          | New purchase for conducting practicals in Machine lab |
| 30           | Digital Energy meter 5-10 A(1 Phase)           | 2 | 0.03  | 0.06         |                                                       |
| 31           | LCD Projector wireless with WIFI               | 1 | 0.7   | 0.7          | PG Seminar & presentation                             |
| <b>Total</b> |                                                |   |       | <b>18.52</b> |                                                       |

**Name of Dept.: Information Technology**

| Sr. No. | Proposed Item with specification                                                                                                                                                                                            | Qty. Required | Estimated Unit Rate (Rs. In Lacs) | Estimated Amount (Rs. In Lacs) | Justification                                                     |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------------------------------------------|
| 1       | CCTV Setup (DVR network mode -16port, HDD capacity 8TB, recording facility, 8 cameras)                                                                                                                                      | 1             | 1.9                               | 1.9                            | For Monitoring departmental activities in corridor and labs       |
| 2       | I Pad 9" 16GB Internal memory, 2GB RAM, WIFI enabled, GSM+CDMA                                                                                                                                                              | 4             | 0.1                               | 0.4                            | For mobile computing projects & connecting to LCD's in classrooms |
| 3       | Raspberry Pi 2 Complete Starter Kit -- Includes Raspberry Pi 2 900 MHz Quad-Core CPU (1GB) -- Edimax EW-7811Un Wi-Fi Adapter, Power Supply, Kingston 8GB Micro SD Card and Micro SD to SD Adapter--HDMI Cable and Heatsink. | 15            | 0.13                              | 1.95                           | To perform projects and practicals in IoT                         |

| 4                                                       | Laser Printer- Maximum Mono Print Speed (ppm) 20 or more, USB.                                                                                                                                                                                                                                                                                                                                                        | 3                    | 0.08                                     | 0.24                                 | For documentation and departmental work                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------|
| <b>Total</b>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                          | <b>4.49</b>                          |                                                                                 |
| <b>Name of Dept.: Electronics and Telecommunication</b> |                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                          |                                      |                                                                                 |
| <b>Sr. No.</b>                                          | <b>Proposed Item with specification</b>                                                                                                                                                                                                                                                                                                                                                                               | <b>Qty. Required</b> | <b>Estimated Unit Rate (Rs. In Lacs)</b> | <b>Estimate Amount (Rs. In Lacs)</b> | <b>Justification</b>                                                            |
| 1                                                       | DTH System trainer<br>RF Input : 950 - 2150 MHz<br>Input Impedance:75 ohm<br>RF Output: 470 MHz to 862MHz<br>Dish Input : F - Connector<br>Composite Video Output : RCA type<br>Audio Output : RCA type (L/R)<br>TV Output : RCA type<br>Video Output : PAL<br>IF Frequency : 70MHz<br>Video Output level : 1Vpp (75 load)<br>Uplink Satellite : INSAT 4B<br>Controls : Channel Up/Down, Volume Up/Down, PowerOn/Off. | 1                    | 0.21                                     | 0.21                                 | Useful for final year second semester student practicals (Audio-Video Engg.Lab) |
| 2                                                       | Cordless PA System<br>01. Signal to noise ratio : 60 dB.<br>02. Frequency response : 100 Hz to 15000 Hz. 03. Amplifier with two mic. inputs.<br>04. One mic. & One Aux. inputs.<br>05. Power supply : 220VAC 50 Hz. 06. Power Output : 80 Watt RMS Max.<br>07. Tone control : Bass, Treble.<br>08. Audio Monitoring Indicators.<br>09. Output Tap for speaker matching : 4, 8 & 16 Ohms.                              | 1                    | 0.53                                     | 0.55                                 | Useful for final year second semester student practicals                        |

|    |                                                                                                                                                                                                                                                                                                                                                    |                       |      |      |                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | Wifi TV Trainer(with Transmitter and Receiver)<br>Built-in WiFi Internet streaming device<br>• Audio/video/photo streaming<br>• Delivers audio and video files in smartphone to TV or A/V receiver<br>• Built-in WiFi<br>• LAN Ethernet input<br>• HDMI output<br>• Optical output<br>• Mini USB input for firmware upgrade<br>• 1080p HDMI output | 1                     | 0.35 | 0.35 | Useful for final year second semester student practicals (Audio-Video Lab)                                                                                           |
| 4  | CCTV Trainer Kit(Camera Section, 12V DC supply, CCD Image Sensor along with image processing unit )                                                                                                                                                                                                                                                | 1                     | 0.2  | 0.2  | Useful for final year second semester student practicals                                                                                                             |
| 5  | Video Compression Technique Trainer (Real time Video catching and compressing to various faormats like JPEG,MPEG,MP4,wav etc)                                                                                                                                                                                                                      | 1                     | 0.51 | 0.51 | To study various compression methods for images and video using different techniques                                                                                 |
| 6  | Wavelet Technologies make DIPLAB-1.0 'DIGITAL IMAGE PROCESSING LABORATORY'( PAL camera ,DSPPORT-V.1 units ,USB Emulator,USB cable,RS232 cables, BNC to BNC cable BNC to RCA cable, VGA converter, LCD monitor                                                                                                                                      | 1                     | 3.1  | 3.7  | DIPLAB-1.0 will provide students hardware platform for completing their projects as well as research works in the field of DIP in real time(Development of DSP lab). |
| 7  | Capacitive transducer kit ,Pressure Transducer kit,Strainguage Kit, IR Sensor Klt, Optical Pick up Klt, Hall Effect Transducer, Accelerometer                                                                                                                                                                                                      | 1 per item (7 Unit s) | 0.08 | 0.6  | Useful for Second year students Practicals                                                                                                                           |
| 8  | 8085 Trainer Kit                                                                                                                                                                                                                                                                                                                                   | 10                    | 0.07 | 0.7  | Useful for Third year students Practicals(Autonomy) for Microprocessor-Microcontroller Lab                                                                           |
| 9  | 8255 Trainer with stepper motor ,keyboard, 7 segement Display .                                                                                                                                                                                                                                                                                    | 5                     | 0.1  | 0.5  |                                                                                                                                                                      |
| 10 | 8155 Timer Trainer                                                                                                                                                                                                                                                                                                                                 | 5                     | 0.05 | 0.25 |                                                                                                                                                                      |
| 11 | 8279 Trainer(4X4 keyboard                                                                                                                                                                                                                                                                                                                          | 5                     | 0.05 | 0.25 |                                                                                                                                                                      |

|              |                                                                                                                           |   |      |              |                                                                                            |
|--------------|---------------------------------------------------------------------------------------------------------------------------|---|------|--------------|--------------------------------------------------------------------------------------------|
|              | interface)                                                                                                                |   |      |              |                                                                                            |
| 12           | ADC 0808/0809 interfacing Board                                                                                           | 5 | 0.05 | 0.25         |                                                                                            |
| 13           | 8051 Trainer Kit(with Development Board and various peripheral devices like switches ,7 segment display,LCD display,LED ) | 5 | 0.1  | 0.5          |                                                                                            |
| 14           | PIC16/PIC18 Development Board                                                                                             | 5 | 0.1  | 0.5          |                                                                                            |
| 15           | ARM7 LPC 2148(Philips Controller)                                                                                         | 5 | 0.2  | 1            |                                                                                            |
| 16           | Universal IC tester                                                                                                       | 1 | 0.5  | 0.5          |                                                                                            |
| 17           | Universal Programmer(for various microcontroller Programming)                                                             | 1 | 0.5  | 0.5          | Useful for Third year students Practicals(Autonomy) for Microprocessor-Microcontroller Lab |
| 18           | VLSI- Programming Software(Vivado)                                                                                        | 1 | 3    | 3            |                                                                                            |
| <b>Total</b> |                                                                                                                           |   |      | <b>14.07</b> |                                                                                            |

**Name of Dept.: Applied Mechanics**

| Sr. No.      | Proposed Item with specification        | Qty. Required | Estimated Unit Rate (Rs. In Lacs ) | Estimated Amount (Rs. In Lacs ) | Justification                     |
|--------------|-----------------------------------------|---------------|------------------------------------|---------------------------------|-----------------------------------|
| 1            | Compression Testing Machine (CTM) 300 T | 1             | 5.000                              | 5.00                            | For UG Practicals and Testing Lab |
| <b>Total</b> |                                         |               |                                    | <b>5</b>                        |                                   |

**Name of Dept.: Master of Computer Applications**



| Sr. No.      | Proposed Item with specification                                                                            | Qty. Required | Estimated Unit Rate (Rs. In Lacs ) | Estimated Amount (Rs. In Lacs ) | Justification                                           |
|--------------|-------------------------------------------------------------------------------------------------------------|---------------|------------------------------------|---------------------------------|---------------------------------------------------------|
| 1            | AIR CONDITIONER ( for CG, CN & SDP Laboratory in MCA Dept. )                                                | 8             | 0.400                              | 3.20                            | Required for making dust proof enviroment in laboratory |
| 2            | Blade Server 2 Intel® Xeon®, 32GB PC3L-10600R 4x8GB 1Rank Memory Hot Swapping HDD (OR Latest Configuration) | 1             | 5.00                               | 5.00                            | Required for user management system & for mail server   |
| <b>Total</b> |                                                                                                             |               |                                    | <b>8.2</b>                      |                                                         |

| Name of Dept.: Workshop |                                                                                                                                                                           |               |                                   |                                |                                                          |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|--------------------------------|----------------------------------------------------------|
| Sr. No.                 | Proposed Item with specification                                                                                                                                          | Qty. Required | Estimated Unit Rate (Rs. In Lacs) | Estimated Amount (Rs. In Lacs) | Justification                                            |
| 1                       | Power Heck Saw                                                                                                                                                            | 1             | 0.9                               | 0.9                            | this machine is not available in workshop                |
| 2                       | Fitting Vice ( Fitting )                                                                                                                                                  | 12            | 0.07                              | 0.84                           | Required for Practicals                                  |
| 3                       | Welding Machine : 2 Phase ( 400 ampere)                                                                                                                                   | 1             | 0.49                              | 0.49                           | This machine can be used to weld material for job orders |
| 4                       | Hand Grinder                                                                                                                                                              | 1             | 0.05                              | 0.05                           | We have only one machine which is not enough to work     |
| 5                       | Hand Drill Machine ( Hammerstone)                                                                                                                                         | 2             | 0.1                               | 0.2                            | We have only one machine which is not enough to work     |
| 6                       | Bench Grinder                                                                                                                                                             | 1             | 0.15                              | 0.15                           | We have only one machine which is not enough to work     |
| 7                       | Zip Saw Machine                                                                                                                                                           | 1             | 0.3                               | 0.3                            | can be used for work orders                              |
| 8                       | Wood Turning Machine ( Bed Size 4 feet X 2.5 feet )                                                                                                                       | 4             | 0.7                               | 2.8                            | can be used for work orders                              |
| 9                       | Multimeter                                                                                                                                                                | 1             | 0.05                              | 0.05                           | required for work orders                                 |
| 10                      | TIG/MIG Welding machine: Rated Input voltage: 220 +/- 15%, Input frequency: 50 Hz, Rated Power at Max. Current (KVA):6.2, Weight: 22 kg, Dimension (LXWXH) mm:498x328x365 | 1             | 1.00                              | 1.00                           | Machine Not available. Required for UG and PG            |
| 11                      | Molding box: Cope and drag size: length 12 inch x Width 12 inch, thickness 5 inch                                                                                         | 1             | 0.10                              | 0.10                           | Required for foundry                                     |
| Total                   |                                                                                                                                                                           |               |                                   | 6.88                           |                                                          |
| Name of Dept.: Physics  |                                                                                                                                                                           |               |                                   |                                |                                                          |
| Sr. No.                 | Proposed Item with specification                                                                                                                                          | Qty. Required | Estimated                         | Estimated Amount               | Justification                                            |

|   |                                                                                                                                                                                                |   | Unit<br>Rate<br>(Rs. In<br>Lacs) | (Rs. In<br>Lacs) |                                                                                                          |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------|------------------|----------------------------------------------------------------------------------------------------------|
| 1 | Super conductivity Experimental kit.<br>High quality superconductor with in-built four probe & surface temperature sensor.<br>Learning CD                                                      | 4 | 0.1                              | 0.4              | According to New syllabus, kit is useful For the FE student to understand the concept of super conductor |
| 2 | Spectrometer with Plane Transmission grating<br>Adjesment of entrance slit is provided, Prism table for accurate componant placement,cross wire eyepiece, wide aperture optics, Learning CD    | 2 | 0.17                             | 0.34             | For First year Experiments                                                                               |
| 3 | Inverse Square Law Kit<br>Sliding Stand,Light source with height adjustment, Learning CD                                                                                                       | 2 | 0.1                              | 0.2              | As per NBA remark for the development of laboratory                                                      |
| 4 | Resolving Power of Telescope<br>Variable rectangular slit, cross wire eyepiece, wide aperture optics, sodium light, Learning CD                                                                | 2 | 0.18                             | 0.36             | As per NBA remark for the development of laboratory                                                      |
| 5 | Laurentz half shade polarimeter with Source<br>sodium vapour lamp, adestable height,circular graduated from 0 to 360 0C. Polarimeter glass tube with bubble trapper in the middle, Learning CD | 2 | 0.15                             | 0.3              | As per NBA remark for the development of laboratory                                                      |






|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |     |     |                                                                                                                                                                                                                                                |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | <p>Furnace<br/> 6" x 6" x 6", 3.6L approx with swing aside door at the front.<br/> Temp range - 1200 °C The temperature controller should be a PID automatic control power control and. power control and. programmable with necessary safety features. Al<sub>2</sub>O<sub>3</sub> Sample Plate 1 pcs<br/> Al<sub>2</sub>O<sub>3</sub> Furnace Door Block 1 pcs<br/> Protection Glove 2 pairs<br/> Crucible Clip 1 pair<br/> Crucibles 6 pcs</p> | 1 | 0.9 | 0.9 | <p>Use to sinter or annealing the metal oxide thin film of alumina substrate, Glass substrate, Quartz substrate, FTO substrate at different temperature for different characterization e.g. XRD, SEM, TGA, IR, Impedance spectroscopy etc.</p> |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                     |                                                                                                                                                                     |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>Potentiostat<br/>Two/three electrode system<br/>Sample holder and light source arrangement. 100W/200w<br/>Lamp with cooling Digital controlled power supply.</p> | 1 | 3   | 3   | <p>To find out the following characteristics of thin film</p> <ol style="list-style-type: none"> <li>1. Linear sweep voltametry</li> <li>2. I. V. Curve for solar cell.</li> <li>3. Square wave voltametry.</li> <li>4. Normal and reverse pulse voltametry.</li> <li>5. Linear sweep stepping voltametry.</li> <li>6. Cyclic voltametry</li> <li>7. Cyclic square wave voltametry.</li> </ol> <p>and also Provide Electro deposition facility.</p> |
|  | <p>Chemical vapour Deposition System (Temp range - 1200 degree. Low Pressure, Quartz Glass chamber, alumina Boat, Tungston Heater)</p>                              | 1 | 2.5 | 2.5 | <p>Chemical method use to prepare thin film of metal oxide material for the application of nano thechnology e.g. fuel cell, Solar cell , Gas sensing, Super capacitor etc.</p>                                                                                                                                                                                                                                                                      |

|              |                                                                                                                                              |   |     |            |                                                                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 9            | TEP (Thermo Electric Power) Unit.<br>Voltage range up to 10 volt<br>Current range 10 micro ampere to 10 mA.<br>Temperature range up to 3500C | 1 | 1.4 | 1.4        | Two probe connector for providing potential across sample and measurement of current. To measure the energy band gap of nano material |
| 10           | Spin Coating System<br>max. rpm 3000, Max. time 60 min                                                                                       | 1 | 0.3 | 0.3        | Deposition of sol gel material of metal oxide for application nano technology                                                         |
| <b>Total</b> |                                                                                                                                              |   |     | <b>9.7</b> |                                                                                                                                       |

**Name of Dept.: Chemistry**

| Sr. No.      | Proposed Item with specification                                                                               | Qty. Required | Estimated Unit Rate (Rs. In Lacs) | Estimated Amount (Rs. In Lacs) | Justification                     |
|--------------|----------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|--------------------------------|-----------------------------------|
| 1            | Spectrophotometer- Digital  | 3             | 0.5                               | 1.5                            | For performing practical's in lab |
| 2            | Digital pH meter            | 4             | 0.08                              | 0.32                           |                                   |
| 3            | Digital potentiometer       | 4             | 0.09                              | 0.36                           |                                   |
| <b>Total</b> |                                                                                                                |               |                                   | <b>2.18</b>                    |                                   |

**Name of Dept.: Dean Academics**

| Sr. No. | Proposed Item with specification                                                    | Qty. Required | Estimated Unit Rate (Rs. In Lacs) | Estimated Amount (Rs. In Lacs) | Justification                          |
|---------|-------------------------------------------------------------------------------------|---------------|-----------------------------------|--------------------------------|----------------------------------------|
| 1       | Desk top computers (@ Rs. 50000/- per PC) Intel processor i5 RAM - 4 GB, HDD - 1TB) | 9             | 0.5                               | 4.5                            | For newly established Academic section |
| 2       | Printers (Rs. 15000/- per printer)                                                  | 4             | 0.15                              | 0.6                            |                                        |
| 3       | Network Printer                                                                     | 1             | 0.25                              | 0.25                           |                                        |
| 4       | Copier & Xerox                                                                      | 1             | 1.75                              | 1.75                           |                                        |

|              |                                                       |   |      |        |                                                                     |
|--------------|-------------------------------------------------------|---|------|--------|---------------------------------------------------------------------|
| <del>5</del> | MIS Software (all modules as per received quotations) | 1 | 25.0 | 25.0   | For generating records of academic activities including examination |
| <del>6</del> | Reck Server                                           | 1 | 5.00 | 5.00   | For academic office administration                                  |
| <del>7</del> | UPS 10 KVA on line                                    | 2 | 3.0  | 6.0    | Power backup                                                        |
| Total        |                                                       |   |      | 43.10  |                                                                     |
| Total        |                                                       |   |      | 154.09 |                                                                     |

| e. Maintenance Fund                              |                                                                                                                                                                                                                                                          |                                 |           |          |                     |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|----------|---------------------|
| Name of Dept.: Civil Engineering                 |                                                                                                                                                                                                                                                          |                                 |           |          |                     |
| Sr. No.                                          | Name of Laboratory/ Item/Description                                                                                                                                                                                                                     | Details                         | Unit Cost | Quantity | Total (Rs. in lacs) |
| 1                                                | Civil engineering laboratories                                                                                                                                                                                                                           | Fluid Mechanics lab Maintenance | 0.4       | -        | 0.4                 |
| 2                                                |                                                                                                                                                                                                                                                          | Transportation lab Maintenance  | 0.8       | -        | 0.8                 |
| 3                                                |                                                                                                                                                                                                                                                          | Environmental lab Maintenance   | 0.3       | -        | 0.3                 |
| 4                                                |                                                                                                                                                                                                                                                          | Computer lab Maintenance        | 0.4       | -        | 0.4                 |
| 5                                                |                                                                                                                                                                                                                                                          | Geology lab Maintenance         | 0.2       | -        | 0.2                 |
| 6                                                |                                                                                                                                                                                                                                                          | Geotechnical lab Maintenance    | 0.25      | -        | 0.25                |
| 7                                                |                                                                                                                                                                                                                                                          | Surveying lab Maintenance       | 0.5       | -        | 0.5                 |
| Total                                            |                                                                                                                                                                                                                                                          |                                 |           |          | 2.85                |
| Name of Dept.: Mechanical Engineering Department |                                                                                                                                                                                                                                                          |                                 |           |          |                     |
| Sr. No.                                          | Name of Laboratory/ Item/Description                                                                                                                                                                                                                     | Details                         | Unit Cost | Quantity | Total (Rs. in lacs) |
| 1                                                | Toner refilling and printer repairing , replacement of SMPS, RAM, Hard disk, motherboard, mouse, pen drive, USB hard disk , VGA connectors for LCD Projector SMF Battery etc. Maintenance of old wooden tables, faulty lamp and ceiling maintenance etc. | CAD-CAM Lab regular maintenance |           |          | 0.40                |

|   |                                                                                                                                                                                    |                                          |  |  |      |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--|--|------|
| 2 | purchase of oil, grease, test tube, thermometer etc & other small maintenance, consumables etc.                                                                                    | better functioning of thermodynamics lab |  |  | 0.20 |
| 3 | purchase of oil, grease, bearing & other small maintenance, spares, etc                                                                                                            | TOM lab repair                           |  |  | 0.30 |
| 4 | Parts and Consumables purchase, thermocouples, digital temperature indicator, repair & maintenance                                                                                 | HMT Lab maintenance                      |  |  | 0.30 |
| 5 | Parts and Consumables purchase, repair & maintenance                                                                                                                               | Measurement & control Lab                |  |  | 0.40 |
| 6 | Maintenance of laboratory equipments & purchase of consumables, CNC lathe, Milling, Robot, AGV, CMM etc. maintenance, tools cutters for milling, turning operations, torque wrench | CIM Lab Maintenance, AMC                 |  |  | 1.20 |
| 7 | Maintenance of laboratory equipments & purchase of consumables, microprocessor, microcontroller & other electronics kits & PLC & its applications etc.                             | Mechatronics Lab maintenance             |  |  | 0.50 |

|    |                                                                                                                                                                               |                                                                                                                                                                                      |            |      |      |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|
| 8  | Purchase of petrol, diesel, grease, cotton waste, engine parts & materials, spares and consumables, AMC for five gas analyser                                                 | Lab consumables & repairs IC Engine Lab                                                                                                                                              |            |      | 0.70 |
| 9  | Purchase of oil, refrigerant, replacement of pressure guages, drier filter etc.                                                                                               | Lab consumable & repairs RAC Lab                                                                                                                                                     |            |      | 0.20 |
| 10 | Purchase of Grease, sponges, ropes, pipes & hose, Mercury, pressure guages & servicing or repair of equipments                                                                | FM/FTM Lab repair and maintenance                                                                                                                                                    |            |      | 0.30 |
| 11 | Purchase of Indentor, oil, calibration of microscope, hardness tester & other machines,                                                                                       | Metallurgy Lab repair and maintenance, calibration                                                                                                                                   |            |      | 0.30 |
| 12 | Maintenance of laboratory equipments & purchase of consumables e.g.oil, grease, rebet etc                                                                                     | IHP Lab maintenance                                                                                                                                                                  |            |      | 0.30 |
| 13 | Measuring Instrument repair, spare part, purchase of oil, paraffin, cotton waste, toolkit, comparator etc.                                                                    | MQC Lab repair and maintenance, calibration                                                                                                                                          |            |      | 0.10 |
| 14 | Feeler Gauges 0.03 mm to 1 mm (26 Pcs), Radius Gauge 1 mm to 7 mm, Radius Gauge 7.5 mm to 15 mm, Screw Pitch Gauge 0.4 mm to 7 mm, Telescope Gauge 8 mm to 150 mm (6 Pcs set) | Laboratory equipments for demonstration and measurement mentioned in curriculum at TE level in Metrology & Quality Control Lab, to provide feel to the students of practical aspects | 1 Set each | 0.05 | 0.05 |
| 15 | Regular 'V' Block (4"), Regular Spirit                                                                                                                                        |                                                                                                                                                                                      | 1 Set each | 0.01 | 0.01 |

|              |                                                                                                            |                                       |   |      |             |
|--------------|------------------------------------------------------------------------------------------------------------|---------------------------------------|---|------|-------------|
|              | Level 150 mm                                                                                               |                                       |   |      |             |
| 16           | Metrology specimens to understand the concept of Limits, fits, Tolerances, miscellaneous measurement, etc. |                                       | - | 0.30 | 0.30        |
| 17           | Maintenance of laboratory equipments & purchase of consumables.e.g. cotton waste, oil, grease etc          | Automobile Lab repair and maintenance |   |      | 0.30        |
| 18           | Inserts & tool Holder                                                                                      | Machine tool Lab                      | 1 | 0.50 | 0.50        |
| <b>Total</b> |                                                                                                            |                                       |   |      | <b>5.86</b> |

**Name of Dept.: Electrical Engineering**

| Sr. No. | Name of Laboratory/ Item/Description      | Details     | Unit Cost | Quantity | Total (Rs. in lacs) |
|---------|-------------------------------------------|-------------|-----------|----------|---------------------|
| 1       | Polycab multistrad cable 1.00 Sq.mm       | consumables | 900       | 10       | 0.09                |
| 2       | Polycab multistrad cable 1.5 Sq.mm        | consumables | 1000      | 10       | 0.1                 |
| 3       | Polycab multistrad cable 2.5 Sq.mm        | consumables | 1700      | 5        | 0.085               |
| 4       | Polycab multistrad cable 4.00 Sq.mm       | consumables | 2400      | 3        | 0.072               |
| 5       | Polycab multistrad cable 6.00 Sq.mm       | consumables | 3500      | 1        | 0.035               |
| 6       | Polycab 2 core multistrad cable 1.5 Sq.mm | consumables | 2000      | 5        | 0.1                 |
| 7       | Polycab 2 core multistrad cable 2.5 Sq.mm | consumables | 2500      | 3        | 0.075               |
| 8       | Polycab 3 core multistrad cable 1.5 Sq.mm | consumables | 2500      | 1        | 0.025               |
| 9       | Polycab 3 core multistrad cable 2.5 Sq.mm | consumables | 3000      | 1        | 0.03                |
| 10      | Polycab 3 core multistrad cable 4.0 Sq.mm | consumables | 5000      | 1        | 0.05                |
| 11      | Polycab 4 core multistrad cable 1.5 Sq.mm | consumables | 4000      | 3        | 0.12                |
| 12      | Polycab 4 core multistrad cable 2.5 Sq.mm | consumables | 5000      | 3        | 0.15                |
| 13      | Polycab 4 core multistrad cable 4.0 Sq.mm | consumables | 6500      | 2        | 0.13                |
| 14      | Polycab 4 core multistrad cable 6.0 Sq.mm | consumables | 8000      | 2        | 0.16                |
| 15      | MCB with box single pole 6 A              | Maintenance | 120       | 20       | 0.024               |
| 16      | MCB with box single pole 32 A             | Maintenance | 400       | 20       | 0.08                |
| 17      | MCB with box 2 pole 16 A                  | Maintenance | 400       | 10       | 0.04                |
| 18      | MCB with box 2 pole 32 A                  | Maintenance | 600       | 10       | 0.06                |
| 19      | MCB with box 3 pole 16 A                  | Maintenance | 750       | 10       | 0.075               |



|    |                                            |             |      |     |        |
|----|--------------------------------------------|-------------|------|-----|--------|
| 20 | MCB with box 3 pole 32 A                   | Maintenance | 850  | 10  | 0.085  |
| 21 | MCB with box 3 pole 63 A                   | Maintenance | 1050 | 10  | 0.105  |
| 22 | MCB with box 4 pole 16 A                   | Maintenance | 900  | 10  | 0.09   |
| 23 | MCB with box 4 pole 32 A                   | Maintenance | 1000 | 10  | 0.1    |
| 24 | MCB with box 4 pole 63 A                   | Maintenance | 1200 | 5   | 0.06   |
| 25 | MCB with box 4 pole 100 A                  | Maintenance | 1500 | 5   | 0.075  |
| 26 | Service wire 1.5 Sq.mm                     | consumables | 2000 | 2   | 0.04   |
| 27 | Service wire 2.5 Sq.mm                     | consumables | 2500 | 2   | 0.05   |
| 28 | Flexible Wire 24/36                        | consumables | 700  | 1   | 0.007  |
| 29 | Lug's 2.5 Sq. mm                           | consumables | 25   | 20  | 0.005  |
| 30 | Lug's 4.0 Sq. mm                           | consumables | 30   | 20  | 0.006  |
| 31 | Lug's 6.0 Sq. mm                           | consumables | 45   | 20  | 0.009  |
| 32 | Lug's 10.0 Sq. mm                          | consumables | 60   | 15  | 0.009  |
| 33 | Lug's 25.0 Sq. mm                          | consumables | 70   | 15  | 0.0105 |
| 34 | Crimping tool                              | Maintenance | 3000 | 1   | 0.03   |
| 35 | Wood screw 25x8                            | consumables | 60   | 10  | 0.006  |
| 36 | Wood screw 35x8                            | consumables | 70   | 10  | 0.007  |
| 37 | Wood screw 50x8                            | consumables | 80   | 10  | 0.008  |
| 38 | Wood Screw 60x8                            | consumables | 95   | 10  | 0.0095 |
| 39 | Wood Screw 75x8                            | consumables | 120  | 10  | 0.012  |
| 40 | PVC Board 4x6                              | consumables | 120  | 10  | 0.012  |
| 41 | PVC Board 6x8                              | consumables | 150  | 10  | 0.015  |
| 42 | 16 A Power point with box                  | consumables | 250  | 30  | 0.075  |
| 43 | Insulation tape in R,Y,B colour also black | consumables | 20   | 120 | 0.024  |
| 44 | 36 watt florescent tube set                | consumables | 500  | 60  | 0.3    |
| 45 | 36 watt electronic chowk (1x36)compact     | consumables | 200  | 50  | 0.1    |
| 46 | Bi pin Holder TR Holder                    | consumables | 50   | 200 | 0.1    |
| 47 | Drill Bit Concrete 5 mm                    | consumables | 50   | 25  | 0.0125 |
| 48 | M S Drill Bit 5 mm                         | consumables | 60   | 20  | 0.012  |
| 49 | Bypass Drill Bit 12 mm                     | consumables | 200  | 10  | 0.02   |
| 50 | Drill Machine 12 mm                        | Maintenance | 5000 | 2   | 0.1    |
| 51 | All Ring Spanner Set                       | Maintenance | 1500 | 2   | 0.03   |
| 52 | Safty Belt & Helmet                        | consumables | 6000 | 2   | 0.12   |
| 53 | Casing Caping patti                        | consumables | 50   | 80  | 0.04   |
| 54 | Dol Starter                                | Maintenance | 2500 | 5   | 0.125  |
| 55 | Rawal plug Box                             | consumables | 15   | 100 | 0.015  |
| 56 | Dol Starter Relay 4 to 6 A                 | Maintenance | 500  | 20  | 0.1    |
| 57 | Dol Starter NVC (415v)                     | consumables | 350  | 10  | 0.035  |
| 58 | 6 A two way switch                         | consumables | 30   | 10  | 0.003  |

|    |                                                              |             |      |     |         |
|----|--------------------------------------------------------------|-------------|------|-----|---------|
| 59 | 1.5 V pencil cell                                            | consumables | 15   | 50  | 0.0075  |
| 60 | Three pin top 6A Anchor                                      | Maintenance | 20   | 50  | 0.01    |
| 61 | Three pin top 16A Anchor                                     | Maintenance | 30   | 50  | 0.015   |
| 62 | Batten Holder                                                | Maintenance | 25   | 20  | 0.005   |
| 63 | 9 V Nickel iron Battery ( Small)                             | consumables | 80   | 20  | 0.016   |
| 64 | 200 W lamp                                                   | consumables | 28   | 30  | 0.0084  |
| 65 | 100 W Lamp                                                   | consumables | 15   | 30  | 0.0045  |
| 66 | 60 W Lamp                                                    | consumables | 10   | 30  | 0.003   |
| 67 | 1" PVC Pipe Conduit                                          | consumables | 20   | 40  | 0.008   |
| 68 | 1" PVC Pipe Saddles                                          | consumables | 15   | 150 | 0.0225  |
| 69 | CFL LAMP 85 W                                                | consumables | 750  | 50  | 0.375   |
| 70 | CFL LAMP 45 W                                                | consumables | 600  | 50  | 0.3     |
| 71 | CFL street light fitting 45 watt                             | consumables | 400  | 50  | 0.2     |
| 72 | CFL Holder 85 Watt                                           | consumables | 150  | 50  | 0.075   |
| 73 | CFL street light fitting 85 watt                             | consumables | 500  | 50  | 0.25    |
| 74 | Rubber Handglove 500 v - 1000 v (Pair)                       | Maintenance | 600  | 4   | 0.024   |
| 75 | Ding dong Bell Cordless                                      | Maintenance | 150  | 10  | 0.015   |
| 76 | hack saw tenon Saw                                           | Maintenance | 150  | 2   | 0.003   |
| 77 | 6A Flush type fuse kit kat                                   | consumables | 50   | 10  | 0.005   |
| 78 | Hack saw blade small & Large                                 | consumables | 15   | 30  | 0.0045  |
| 79 | Tool Bag                                                     | Maintenance | 500  | 4   | 0.02    |
| 80 | Files Round, Half Round, Smooth, Triangular, wood Rasp, flat | Maintenance | 150  | 6   | 0.009   |
| 81 | Chisels                                                      | Maintenance | 150  | 1   | 0.0015  |
| 82 | CFL 35 Watt                                                  | consumables | 250  | 20  | 0.05    |
| 83 | CFL 15 Watt                                                  | consumables | 200  | 20  | 0.04    |
| 84 | LED 1/2 Watt Lamp in R,Y,B Colour Each 5                     | consumables | 90   | 15  | 0.0135  |
| 85 | 36 W Fluorescent Tube Starter                                | consumables | 25   | 20  | 0.005   |
| 86 | Soldering Iron 25W , 35W, 75W Each 1 No.                     | Maintenance | 250  | 3   | 0.0075  |
| 87 | Soldering Metal                                              | consumables | 50   | 10  | 0.005   |
| 88 | Soldering Flux                                               | consumables | 35   | 5   | 0.00175 |
| 89 | Fuse Wire 6A                                                 | consumables | 350  | 4   | 0.014   |
| 90 | Cable Tie 150 mm                                             | consumables | 250  | 20  | 0.05    |
| 91 | Raw Rubber                                                   | consumables | 200  | 5   | 0.01    |
| 92 | Polish Paper                                                 | consumables | 20   | 24  | 0.0048  |
| 93 | Air Blower                                                   | Maintenance | 1500 | 1   | 0.015   |
| 94 | Motor Protection cover for 3 HP                              | Maintenance | 250  | 10  | 0.025   |
| 95 | Tong Tester 500 A & 1000 A                                   | Maintenance | 4000 | 5   | 0.2     |
| 96 | Glass Fuse                                                   | consumables | 5    | 250 | 0.0125  |

| 97                                           | Megger                                                      | Maintenance                                            | 3500      | 1        | 0.035               |
|----------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|-----------|----------|---------------------|
| 98                                           | Square Box tube fitting                                     | consumables                                            | 10        | 100      | 0.01                |
| 99                                           | MCCB 50A                                                    | Maintenance                                            | 4500      | 5        | 0.225               |
| 100                                          | Energy meter                                                | Maintenance                                            | 500       | 5        | 0.025               |
| 101                                          | Torch LED(Charging type)                                    | consumables                                            | 500       | 5        | 0.025               |
| 102                                          | 1.5 V normal cell                                           | consumables                                            | 15        | 50       | 0.0075              |
| <b>Total</b>                                 |                                                             |                                                        |           |          | <b>5.63</b>         |
| 1                                            | Electrical all lab maintenance                              | Maintenance                                            |           |          | 1.5                 |
| 2                                            | Keyboards, Mouse, ram, SMPS, Motherboard, CMOS battery, etc | Maintenance in Computer lab                            |           |          | 1.5                 |
| <b>Total</b>                                 |                                                             |                                                        |           |          | <b>3.00</b>         |
| <b>Total</b>                                 |                                                             |                                                        |           |          | <b>8.63</b>         |
| <b>Name of Dept.: Information Technology</b> |                                                             |                                                        |           |          |                     |
| Sr. No.                                      | Name of Laboratory/ Item/Description                        | Details                                                | Unit Cost | Quantity | Total (Rs. in lacs) |
| 1                                            | To keep printers in working condition                       | Minor problems like head, toner replacement            | 500       | 10       | 0.05                |
| 2                                            | To keep computers in working condition                      | Problems like Motherboard, HDD, RAM, Display           |           |          | 0.5                 |
| 3                                            | To keep LCD projectors in working condition                 | Minor problems like poor image quality, remote control | 5,000     | 3        | 0.15                |
| 4                                            | To keep PA System in working condition                      | Low Voice quality, Start-up problem                    | 5000      | 1        | 0.05                |
| <b>Consumables</b>                           |                                                             |                                                        |           |          |                     |
| 1                                            | Laser Printer toner refill                                  | Consumables                                            | 400       | 20       | 0.08                |
| 2                                            | Dot Matrix Printer Ribbon                                   | Consumables                                            | 150       | 10       | 0.015               |
| 3                                            | HDMI Cable 10m                                              | Consumables                                            | 2000      | 2        | 0.04                |
| 4                                            | Blower                                                      | Consumables                                            | 4000      | 1        | 0.04                |
| 5                                            | Table Glass Thickness-8mm 3'X2.5'                           | Consumables                                            | 3000      | 5        | 0.15                |
| 6                                            | Sweeping Mop                                                | Consumables                                            | 300       | 2        | 0.006               |
| 7                                            | Xerox Machine Toner refill                                  | Consumables                                            | 7500      | 1        | 0.075               |
| <b>Maintenance</b>                           |                                                             |                                                        |           |          |                     |
| 1                                            | Xerox Machine AMC                                           | Maintenance                                            | 15000/-   | 1        | 0.15                |
| <b>Stationary Items</b>                      |                                                             |                                                        |           |          |                     |

→ Not mentioned in budget - Special item/Permission = 1.38210

(-) 0.06828

1.31382

|    |                                   |            |       |        |        |
|----|-----------------------------------|------------|-------|--------|--------|
| 1  | Table Cloth                       | Stationary | 150   | 5      | 0.0075 |
| 2  | White Board marker Pen Ink Bottle |            | 40    | 10     | 0.004  |
| 3  | Box File                          |            | 60    | 13     | 0.0072 |
| 4  | Note Book                         |            | 50    | 13     | 0.006  |
| 5  | Gum Bottle                        |            | 50    | 2      | 0.001  |
| 6  | Punching Machine                  |            | 60    | 6      | 0.0036 |
| 7  | Pad Ink Bottle                    |            | 15    | 2      | 0.0003 |
| 8  | Paper Tag                         |            | 25    | 30     | 0.0075 |
| 9  | Highlighter                       |            | 30    | 5      | 0.0015 |
| 10 | A-4 paper rims                    |            | 150   | 25     | 0.0375 |
|    |                                   |            | Total | 1.3821 |        |

**Name of Dept.: Electronics and Telecommunication**

| Sr. No.      | Name of Laboratory/ Item/Description                                                         | Details                           | Unit Cost | Quantity | Total (Rs. in lacs) |
|--------------|----------------------------------------------------------------------------------------------|-----------------------------------|-----------|----------|---------------------|
| 1            | Undergraduate project components, Development Boards, Sensors, Motors ,Relays                | Final Year students Project       |           |          | 1.5                 |
| 2            | Laboratory Consumables(Resistors, capacitors, diodes, transistors, IC Regulators, Gate ICs ) | All Laboratory Consumables        |           |          | 1                   |
| 3            | Portable USB Hard-disks 1TB                                                                  |                                   | 0.01      | 2        | 0.2                 |
| 4            | Mini Project components                                                                      | For third year students           |           |          | 0.5                 |
| 5            | AMC (Batteries, UPS ,EPABX)                                                                  | General Maintenance and Repairing |           |          | 1                   |
| <b>TOTAL</b> |                                                                                              |                                   |           |          | <b>4.2</b>          |

**Name of Dept.: Applied Mechanics**

| Sr. No. | Name of Laboratory/ Item/Description | Details           | Unit Cost | Quantity | Total (Rs. in lacs) |
|---------|--------------------------------------|-------------------|-----------|----------|---------------------|
| 1       | Picnometer Bottle                    | Material & Supply | 0.005     | 3        | 0.015               |
| 2       | Plunger / Tamping Rod                | Material & Supply | 0.005     | 3        | 0.015               |
| 3       | Vicat Apparatus                      | Material & Supply | 0.05      | 3        | 0.15                |
| 4       | Calibration charges of Proving Ring  | Calibration       | 0.75      | 1        | 0.75                |
| 5       | Curtains for Class Room              | Two Classrooms    | 0.07      | 2        | 0.15                |

|                                                       |                                                                                    |                                          |                  |                                          | <b>Total</b>               | <b>1.08</b>  |
|-------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------|------------------|------------------------------------------|----------------------------|--------------|
| <b>Name of Dept.: Master of Computer Applications</b> |                                                                                    |                                          |                  |                                          |                            |              |
| <b>Sr. No.</b>                                        | <b>Name of Laboratory/ Item/Description</b>                                        | <b>Details</b>                           | <b>Unit Cost</b> | <b>Quantity</b>                          | <b>Total (Rs. in lacs)</b> |              |
| 1                                                     | Required for Printing maintainance                                                 | Printer Servicing                        | 0.015            | 2                                        | 0.030                      |              |
| 2                                                     | Xerox Machine maintainance                                                         | Xerox Machine Towner Refilling           | 0.032            | 4                                        | 0.128                      |              |
| 3                                                     | Required for Printing of official work, proposals etc.                             | Leserjet Printer Towner Refilling        | 0.017            | 6                                        | 0.102                      |              |
| 4                                                     | Maintenance                                                                        | Maintenance , stationary & consumables   | -                | Lum psum                                 | 0.70                       |              |
| 5                                                     | Stationary                                                                         | A4 Size papers                           |                  | 25 Rim                                   | 0.05                       |              |
|                                                       |                                                                                    |                                          |                  |                                          | <b>Total</b>               | <b>1.010</b> |
| <b>Computer Center/ Internet</b>                      |                                                                                    |                                          |                  |                                          |                            |              |
| <b>Sr. No.</b>                                        | <b>Name of Laboratory/ Item/Description</b>                                        | <b>Details</b>                           | <b>Unit Cost</b> | <b>Quantity</b>                          | <b>Total (Rs. in lacs)</b> |              |
| 1                                                     | Subscription for Amazon EC2 Instance (D2 – Dense-storage) of type On-Demand Hourly | For Cloud Computing research             | 15               | Cost of daily two hours (\$1= 62.30IN R) | 4.434                      |              |
| 2                                                     | Man power (Maintenance Engineer for CWN) per year                                  | For maintenance of newly established CWN | 1                | 1                                        | 5.000                      |              |

| 3                      | Maintenance & consumables                                                                                                                                                                           | Keyboards,<br>Mouse,<br>Switches,<br>Patch chord<br>etc | -            | Lum<br>psum      | 1.00                      |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------|------------------|---------------------------|
| Total                  |                                                                                                                                                                                                     |                                                         |              |                  | 10.434                    |
| Name of Dept. Workshop |                                                                                                                                                                                                     |                                                         |              |                  |                           |
| Sr.<br>No.             | Name of Laboratory/ Item/Description                                                                                                                                                                | Details                                                 | Unit<br>Cost | Qu<br>anti<br>ty | Total<br>(Rs. in<br>lacs) |
| 1                      | Lathe machine, shaping machine, Hacksaw, Drilling etc.                                                                                                                                              | Electric and mechanical maintenance                     | -----        | -----<br>--      | 1                         |
| 2                      | Ring spanner Set & Spanner set – mm & inch                                                                                                                                                          | Material & Supply                                       | 0.03         | 06<br>set        | 0.18                      |
| 3                      | Drill (SS & TS)                                                                                                                                                                                     | Material & Supply                                       | ----         | 12<br>Nos        | 0.5                       |
| 4                      | Welding Rod – 10swg 8 swg                                                                                                                                                                           | Material & Supply                                       | 0.02         | 10<br>Box        | 0.2                       |
| 5                      | Cutting wheel, wood cutting wheel, Insulated plier, Screw driver etc.                                                                                                                               | Material & Supply                                       | -----        | -----<br>--      | 0.25                      |
| 6                      | All Type File and Tools                                                                                                                                                                             | Material & Supply                                       | -----        | -----<br>--      | 0.1                       |
| 7                      | Hardware Material<br>Plywood - 8 x 4 ft. 18 mm<br>12 mm , 8 mm,6 mm and Sun mica/ Formica<br>,Fevicol, Wire nails, Wood Screw, Polish<br>Paper, Emery cloth ,grinding wheel ,Hack<br>saw Blade etc. | Material & Supply                                       |              | -----            | 2.5                       |
| 8                      | Cobalt tool – 5/8 x 5/8 x 6"                                                                                                                                                                        | Material & Supply                                       | 0.03         | 12<br>Nos        | 0.36                      |
| 9                      | V belt – All size , flat belt, rubber pipe, polish paper, paint, painting brush, fevicol, , hinges, huffs and staple, frees, oil, cutting oil, deisel, kerosene,                                    | Material & Supply                                       | -----        | -----<br>--      | 0.35                      |
| 10                     | Practical material-(M.S. round bar, teak wood, MS flat, GI sheet, etc ,.)                                                                                                                           | Material & Supply                                       | -----<br>--  | -----<br>--      | 2                         |

|       |                                                                                                    |                               |             |          |      |
|-------|----------------------------------------------------------------------------------------------------|-------------------------------|-------------|----------|------|
| 11    | Cleaning material (brooms, odopic, coconut brooms, life boy , table cloth, other cleaning material | Material & Supply             |             | ----     | 0.6  |
| 12    | Generator Maintenance                                                                              | Material required for repairs | -----<br>-- | ----     | 0.25 |
| 13    | Zerox Machine, Computer , Printer, toner refilling                                                 | Material & Supply             |             |          | 0.3  |
| 14    | Stationary                                                                                         | Material & Supply             |             |          | 0.1  |
| 15    | Diesel                                                                                             | Material & Supply             | 55          | 140<br>0 | 0.77 |
| Total |                                                                                                    |                               |             |          | 9.46 |

**Name of Dept.: Physics**

| Sr. No | Name of Laboratory/ Item/Description | Details                                    | Unit Cost | Quantity | Total(Rs. in lacs) |
|--------|--------------------------------------|--------------------------------------------|-----------|----------|--------------------|
| 1      | Material and supply                  | Chemicals                                  | 30000     | 1        | 0.3                |
| 2      | Maintenance                          | Desktop computer                           | 5000      | 1        | 0.05               |
|        |                                      | Printer tonner                             | 10000     | 3        | 0.3                |
| 3      | Lab. Consumables                     | Laboratory Tool kit                        | 5000      | 1        | 0.05               |
|        |                                      | Pointer Cell and Charger                   | 500       | 2        | 0.01               |
|        |                                      | Laser cell                                 | 20        | 10       | 0.002              |
|        |                                      | Printing paper rim                         | 500       | 20       | 0.1                |
|        |                                      | Scientists Frame                           | 500       | 9        | 0.045              |
|        |                                      | Stationary items                           | 10000     |          | 0.1                |
|        |                                      | Pen drive 32 GB                            | 1000      | 4        | 0.04               |
| 4      | Research lab.                        | construction for system, Carpet, colouring | 30000     | 1        | 0.3                |

**Total 1.297**

**Name of Dept.: Chemistry**

| Sr. No            | Name of Laboratory/ Item/Description  | Details | Unit Cost | Quantity                   | Total (Rs. in lacs) |
|-------------------|---------------------------------------|---------|-----------|----------------------------|---------------------|
| 1                 | Burette 25 ml                         |         | 500       | 10                         | 0.05                |
| 2                 | Conical flask (250 ml)                |         | 400       | 10                         | 0.04                |
| 4                 | EDTA (500 gm)                         |         | 500       | 2                          | 0.01                |
| 5                 | Ammonia solution (500 ml)             |         | 500       | 04 bottles                 | 0.02                |
| 6                 | Phenolphthalein indicator             |         | 100       | 02 bottles                 | 0.002               |
| 7                 | Muroxide indicator (25 gm)            |         | 200       | 1                          | 0.002               |
| 8                 | Eriochrome black T (25 gm)            |         | 500       | 2                          | 0.01                |
| 9                 | Silver nitrate (25 gm)                |         | 10000     | 1                          | 0.1                 |
| 10                | Formaldehyde                          |         | 500       | 2                          | 0.005               |
| 11                | Measuring cylinder (1 lit.)           |         | 1000      | 1                          | 0.02                |
| 12                | Beaker (250)                          |         | 500       | 10                         | 0.05                |
| 13                | Beaker (500)                          |         | 250       | 10                         | 0.025               |
| 14                | Phenol Solution                       |         | 500       | 02 bottles                 | 0.01                |
| 15                | Methyl orange indicator               |         | 150       | 02 bottles                 | 0.003               |
| 16                | Pipette                               |         | 400       | 10                         | 0.04                |
| 17                | Formaldehyde solution                 |         | 400       | 4                          | 0.016               |
| 18                | Urea 500 gram                         |         | 500       | 500 gm                     | 0.005               |
| 19                | Cuvettes                              |         | 5500      | 1                          | 0.055               |
| 20                | Stationary                            |         | 10000     | Separate sheet is attached | 0.1                 |
| 21                | Pocket pH meters                      |         | 2500      | 4                          | 0.1                 |
| 22                | Steri Pens                            |         | 2000      | 4                          | 0.08                |
| 23                | Printer Servicing                     |         | 2         | 0.015                      | 0.030               |
| 24                | Xerox Machine Towner Refilling        |         | 4         | 0.032                      | 0.128               |
| 25                | Leserjet Printer Towner Refilling     |         | 6         | 0.017                      | 0.102               |
| 26                | Maintenance, stationary & consumables |         | Lump sum  | -                          | 0.70                |
| <b>Total cost</b> |                                       |         |           |                            | <b>1.703</b>        |



| Name of Dept: Mathematics          |                                              |                              |           |          |                     |
|------------------------------------|----------------------------------------------|------------------------------|-----------|----------|---------------------|
| Sr. No                             | Name of Laboratory/ Item/Description         | Details                      | Unit Cost | Quantity | Total (Rs. in lacs) |
| 1                                  | Projection screen                            |                              | 7500      | 5        | 0.375               |
| 2                                  | table cloth                                  |                              | 250       | 4        | 0.01                |
| 3                                  | Permanent marker                             |                              | 50        | 5        | 0.0025              |
| 4                                  | Pen drive                                    |                              | 500       | 2        | 0.01                |
| 5                                  | External HDD 1TB                             |                              | 5000      | 2        | 0.1                 |
| 6                                  | Plastic scale, highlighter, other stationary |                              | 10000     |          | 0.1                 |
| 8                                  | UPS connection                               |                              | 15000     | 1        | 0.15                |
| 9                                  | Printer /Xerox Toner refilling               |                              | 5000      | 4        | 0.2                 |
| 10                                 | Printer /xerox Toner                         |                              | 10000     | 2        | 0.2                 |
| 11                                 | Alkosign boards                              |                              | 10000     | 2        | 0.2                 |
| 12                                 | Computer repair & maintenance                |                              | 15000     |          | 0.15                |
| 13                                 | Xerox Papers                                 |                              | 250       | 25 Rim   | 0.0625              |
| Total                              |                                              |                              |           |          | 1.56                |
| Name of Dept: Office               |                                              |                              |           |          |                     |
| Sr. No                             | Name of Laboratory/ Item/Description         | Details                      | Unit Cost | Quantity | Total (Rs. in lacs) |
| 1                                  | AMC Sharp Xerox Machine                      | AMC                          | 7500      | 1        | 0.07                |
| 2                                  | Table Glass                                  | Consumables                  | 10        | 0.01     | 0.1                 |
| 3                                  | Stationary material                          | Consumables                  | -         | -        | 1.5                 |
| Total                              |                                              |                              |           |          | 1.67                |
| Name of Dept: Dean Academic Office |                                              |                              |           |          |                     |
| Sr. No                             | Name of Laboratory/ Item/Description         | Details                      | Unit Cost | Quantity | Total (Rs. in lacs) |
| 1                                  | For maintenance in Academic Section          | Heater for boiling           | 0.003     | 1        | 0.003               |
| 2                                  |                                              | Cartridge Repair / Refilling | Lumsu m   | Lumsu m  | 0.06                |
| 3                                  |                                              | Copier Repair                | Lumsu m   | Lumsu m  | 0.10                |
| 4                                  |                                              | Stationary                   | Lumsu m   | Lumsu m  | 0.10                |

|   |  |                      |            |            |       |       |
|---|--|----------------------|------------|------------|-------|-------|
| 5 |  | Mouse &<br>keyboards | Lumsu<br>m | Lums<br>um | 0.05  |       |
|   |  |                      |            |            | Total | 0.313 |
|   |  |                      |            |            | Total | 51.45 |

| d. Maintenance Fund (Refurbishment)              |                                                                                                                                            |                                                                                         |                               |                                                                                                                |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| Name of Dept.: Civil Engineering                 |                                                                                                                                            |                                                                                         |                               |                                                                                                                |
| Sr. No                                           | Proposed Item                                                                                                                              | Area Details                                                                            | Estimate Amount (Rs. In Lacs) | Justification                                                                                                  |
| 1                                                | Faculty cabins (Geology lab=03 new, Geotech. lab=02 refurbish, Fluid mech. Lab =01 refurbish Environmental=01 new, 01 refurbish) Total =08 | 960 sq. feet (each of 12 x 10 feet)                                                     | 6                             | Cabins required for new staff                                                                                  |
| 2                                                | Wash basins for faculty cabin (8 nos.)                                                                                                     |                                                                                         | 0.4                           | -                                                                                                              |
| 3                                                | False ceiling for staff cabins in geology lab                                                                                              | 360                                                                                     | 0.3                           | -                                                                                                              |
| Total                                            |                                                                                                                                            |                                                                                         | 6.7                           |                                                                                                                |
| Name of Dept.: Mechanical Engineering            |                                                                                                                                            |                                                                                         |                               |                                                                                                                |
| Sr. No                                           | Proposed Item                                                                                                                              | Area Details                                                                            | Estimate Amount (Rs. In Lacs) | Justification                                                                                                  |
| 1                                                | Extension of Automobile Engg Lab                                                                                                           | 25*75 sqft                                                                              | 20                            | Extension of Automobile Engg Lab as currently three labs are housed together causing congestion of equipments. |
| Total                                            |                                                                                                                                            |                                                                                         | 20                            |                                                                                                                |
| Name of Dept.: Electrical Engineering            |                                                                                                                                            |                                                                                         |                               |                                                                                                                |
| Sr. No                                           | Proposed Item                                                                                                                              | Area Details                                                                            | Estimate Amount (Rs. In Lacs) | Justification                                                                                                  |
| 1                                                | Wash basin and Otta in control lab                                                                                                         | 15*3*2.5 ft Otta Qty =3<br>26*3*2.5 ft Otta =1<br>Total =540 sqft for 2 labs =1080 sqft | 4.00                          | Wash Basin required in Measurement, and Control Systems Lab                                                    |
| Total                                            |                                                                                                                                            |                                                                                         | Rs. 4.00                      |                                                                                                                |
| Name of Dept.: Information Technology Department |                                                                                                                                            |                                                                                         |                               |                                                                                                                |
| Sr. No                                           | Proposed Item                                                                                                                              | Area Details                                                                            | Estimated Amount (Rs. In      | Justification                                                                                                  |

|                                                    |                                                                    |               | Lacs)                          |                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------|--------------------------------------------------------------------|---------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                  | 5 Faculty Cabin half partitioned                                   | 25*10         | 1                              | Seating Arrangement for new Faculty in ITSA room                                                                                                                                                                                                                                                        |
| 2                                                  | Carpet in the Computer Laboratory (1 mm thick)                     | 3800 Sq. Feet | 1.2                            | To provide good environment in lab.                                                                                                                                                                                                                                                                     |
| <b>Total</b>                                       |                                                                    |               | <b>2.2</b>                     |                                                                                                                                                                                                                                                                                                         |
| <b>Name of Dept.: Applied Mechanics Department</b> |                                                                    |               |                                |                                                                                                                                                                                                                                                                                                         |
| Sr. No                                             | Proposed Item                                                      | Area Details  | Estimate Amount (Rs. In Lacs ) | Justification                                                                                                                                                                                                                                                                                           |
| 1                                                  | Partion Wall between Classrom and Dept Library (Class Room No. 10) | 40 sqm        | 2.15                           | For Dept use.                                                                                                                                                                                                                                                                                           |
| 2                                                  | Extention of Concrete Technology and NDT lab                       | 180.5 Sq M    | 20.00                          | Existing area of laboratory is very inadequate, since shared with strength of material lab. Also no seperate space is available for Non Destructive Testing lab, which is emerging trend in current scenario for civil engineering. Also our BoS and Industrial expert board has insisted for the same. |

|                                                       |                                                   |                                   |                                       |                                                                                                                                                                              |
|-------------------------------------------------------|---------------------------------------------------|-----------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3                                                     | Replacement of Ceiling for Applied Mechanics Lab  | 151.25 sqm                        | 1.25                                  | Existing ceiling is infected by termite and lost its strength and to improve the ambience of lab.                                                                            |
| <b>Total</b>                                          |                                                   |                                   | <b>23.40</b>                          |                                                                                                                                                                              |
| <b>Name of Dept.: Master of Computer Applications</b> |                                                   |                                   |                                       |                                                                                                                                                                              |
| <b>Sr. No</b>                                         | <b>Proposed Item</b>                              | <b>Area Details</b>               | <b>Estimate Amount (Rs. In Lacs)</b>  | <b>Justification</b>                                                                                                                                                         |
| 1                                                     | Shoe & Bag Rack with pegin Holes                  | Size 14' X 7' X 18"               | 0.8820                                | Required for making dust proof enviroment in laboratory                                                                                                                      |
| <b>Total</b>                                          |                                                   |                                   | <b>0.8820</b>                         |                                                                                                                                                                              |
| <b>Name of Dept.: Mathematics</b>                     |                                                   |                                   |                                       |                                                                                                                                                                              |
| <b>Sr. No</b>                                         | <b>Proposed Item</b>                              | <b>Area Details</b>               | <b>Estimate Amount (Rs. In Lacs )</b> | <b>Justification</b>                                                                                                                                                         |
| 1                                                     | Staff Cabins with aluminium and glass partition   | 360 sq ft                         | 1.08                                  |                                                                                                                                                                              |
| <b>Total</b>                                          |                                                   |                                   | <b>1.08</b>                           |                                                                                                                                                                              |
| <b>Name of Dept.: Dean Academic</b>                   |                                                   |                                   |                                       |                                                                                                                                                                              |
| <b>Sr. No</b>                                         | <b>Proposed Item</b>                              | <b>Area Details</b>               | <b>Estimate Amount (Rs. In Lacs )</b> | <b>Justification</b>                                                                                                                                                         |
| 1                                                     | Partitioning in Academic Section for establishing | 5000 Sq. Ft. (Rs. 800 per sq. Ft) | 4                                     | The item was proposed in previous budget but there was delay in getting place for establishment of academic section. Now the work can be taken in Financial Year 16-17 hence |
|                                                       | 1. Dean Academic Office                           |                                   |                                       |                                                                                                                                                                              |
|                                                       | 2. COE office                                     |                                   |                                       |                                                                                                                                                                              |
|                                                       | 3. Paper setting office                           |                                   |                                       |                                                                                                                                                                              |
|                                                       | 4. Paper printing section                         |                                   |                                       |                                                                                                                                                                              |
|                                                       | 5. Dean cabins (for other Deans)                  |                                   |                                       |                                                                                                                                                                              |
|                                                       | 6. Students section with counters                 |                                   |                                       |                                                                                                                                                                              |
|                                                       | 7. Paper setting and moderation room              |                                   |                                       |                                                                                                                                                                              |
|                                                       | 8. Paper assessment section                       |                                   |                                       |                                                                                                                                                                              |
|                                                       | 9. Conference room                                |                                   |                                       |                                                                                                                                                                              |

|                                 |                                                                                                                                                           |                     |                                       |                                                                |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|----------------------------------------------------------------|
|                                 | 10.Result Preparation room                                                                                                                                |                     |                                       | proposed.                                                      |
|                                 | 11.Store room                                                                                                                                             |                     |                                       |                                                                |
| 2                               | Shed for student interaction with academic section                                                                                                        | 1                   | 6                                     |                                                                |
| 3                               | Waiting cum communication area for students with Dean Academics section. Shed of size 14.8 x 11.6 m including concrete base and sitting arrangement       | 171.68 SqM          | 3.5                                   |                                                                |
| 4                               | 200 ltrs water cooler with water purifier and maintenance                                                                                                 | 2                   | 0.8                                   |                                                                |
| <b>Total</b>                    |                                                                                                                                                           |                     | <b>14.3</b>                           |                                                                |
| <b>Name of Dept.: Chemistry</b> |                                                                                                                                                           |                     |                                       |                                                                |
| <b>Sr. No</b>                   | <b>Proposed Item</b>                                                                                                                                      | <b>Area Details</b> | <b>Estimate Amount (Rs. In Lacs )</b> | <b>Justification</b>                                           |
| 1                               | Refurbishment of chemistry Lab. - Experiment tables with granite, basins with water fitting taps, Side tables with granite, some tables with gas fitting. |                     | 3                                     | Renovation of chemistry lab for practical and resarch purposes |
|                                 |                                                                                                                                                           | <b>Total</b>        | <b>3</b>                              |                                                                |
| <b>Name of Dept.: Gardening</b> |                                                                                                                                                           |                     |                                       |                                                                |
| <b>Sr. No</b>                   | <b>Proposed Item</b>                                                                                                                                      |                     | <b>Estimate Amount (Rs. In Lacs )</b> | <b>Justification</b>                                           |
| 1                               | Wages                                                                                                                                                     |                     | 2.4                                   | Daily wages charges for gardening                              |
| 2                               | Maintenance & Development of Garden                                                                                                                       |                     | 1.5                                   | Plant & pipe, fertilizer                                       |
|                                 |                                                                                                                                                           | <b>Total</b>        | <b>3.9</b>                            |                                                                |
|                                 |                                                                                                                                                           | <b>Total</b>        | <b>79.46</b>                          |                                                                |

| 7. Institute Level - Salary Fund |                                    |              |                             |                         |                            |
|----------------------------------|------------------------------------|--------------|-----------------------------|-------------------------|----------------------------|
| Sr. No.                          | Post                               | No. of Posts | Honorarium per month in Rs. | Expenditure for 2015-16 | Budget for 2016-17 in lacs |
| 1                                | Assistant Professor                | 4            | 11000                       | 5.28                    | 9.12                       |
| 2                                | Assistant Professor                | 22           | 6000                        | 15.84                   | 42.24                      |
| 3                                | Assistant Prof (institute level)   | 18           | 43000                       | 0.00 *                  | 38.70**                    |
| 4                                | Adjunct Prof (institute level)     | 1            | 50000                       | 0                       | 2.50                       |
| 5                                | Finance Manager (Institute level)  | 1            | 50000                       | 0                       | 6.00                       |
| 6                                | Accounts Officer (Institute level) | 1            | 40000                       | 0                       | 4.80                       |
| 7                                | Tech Assistant                     | 4            | 14000                       | 0                       | 2.80                       |
| 8                                | Accountant                         | 1            | 20000                       | 0                       | 1.00                       |
| 9                                | Tally operator                     | 4            | 7000                        | 0                       | 2.00                       |
| 10                               | CNC Programmer                     | 1            | 7500                        | 0                       | 0.37                       |
| 11                               | PWD co-ordinator                   | 1            | 5000                        | 0                       | 0.25                       |
| 12                               | Peon                               | 5            | 27000                       | 0                       | 2.08                       |
| 13                               | Hostel Peon                        | 1            | 3750                        | 0.03                    | 0.45                       |
| Total                            |                                    |              |                             | 21.12                   | 111.86                     |

The projected budget under salary fund is likely to increase as the honorarium for contractual appointments has to be increased. Also few institute level posts are vacant. After their recruitment the budget shall increase. Moreover, instead of appointing class IV on institute level, it is proposed to outsource the services and hence service provider shall demand service charges resulting in increase in budget.

\*Expenditure under TEQIP-II grant.

• \*\* Projected expenditure from F6 grant due to completion of TEQIP-II project in Oct.2016

| 8. Institute Level Fund : Gymkhana (a) Recurring |                                         |                               |                                                                                                                |
|--------------------------------------------------|-----------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| Sr. No.                                          | Proposed Item with specification        | Estimate Amount (Rs. In Lacs) | Justification                                                                                                  |
| 1                                                | Annual College Day                      | 2.5                           | Celebration of Annual College Day/ Students cultural activities                                                |
| 2                                                | College Magazine                        | 2                             | Publication of College Magazine                                                                                |
| 3                                                | Sports Material                         | 2.5                           | Purchase of sports material required for different Games.                                                      |
| 4                                                | Sports Kits( T Shirt, Pant) Track Suits | 1                             | To provide Colors (T shirt, Pant) to players                                                                   |
| 5                                                | Ground Maintenance material, Labor etc. | 1                             | Repair and Maintenance of Play Ground, clay, Labor charges etc.                                                |
| 6                                                | Sports TA/DA                            | 1.8                           | TA DA to the students and accompanying staff when they go to play outstation for Zonal/ Int. Zonal/ ZEST Games |
| 7                                                | Cultural Activities / Youth Festival    | 0.5                           | To conduct cultural programme during academic year                                                             |
| 8                                                | Ladies Activities                       | 0.2                           | To conduct lady student activities/ programme during academic year                                             |
| 9                                                | Blazers to Student Council              | 0.4                           | To provide Blazers to student council members                                                                  |



|              |                                                                                                                                                                              |             |                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------|
| 10           | I.S.T.E. Activities                                                                                                                                                          | 0.1         | ISTE chapter activities                                                        |
| 11           | Remuneration of supporting staff                                                                                                                                             | 1.5         | Remuneration to Physical Instructor & Gymkhana Peon                            |
| 12           | NSS/NCC/CSP                                                                                                                                                                  | 2           | To conduct these activities as per syllabus of Autonomous structure            |
| 13           | Miscellaneous                                                                                                                                                                | 0.6         | For hospitalities, Stationary, Photographs, repairs other minor purchases etc. |
| 14           | Expenditure for activities related to students clubs (Dias, Robo club, Brain storming, Quest & Treacking, Abhean, Divine, Green Katta, Startup, <u>Aerobics</u> , Yoga club) | 13.5        | Consumables, spares, Accessories, honorarium & TA/DA of experts etc.           |
| <b>Total</b> |                                                                                                                                                                              | <b>29.6</b> |                                                                                |

#### 8- Institute Level Fund : Gymkhana (b) Non Recurring

| Sr. No. | Proposed Item with specification                        | Estimate Amount (Rs. In Lacs) | Justification                                                    |
|---------|---------------------------------------------------------|-------------------------------|------------------------------------------------------------------|
| 1       | Dean Office Furniture (Details attached sheet attached) | 1.31                          | Dean Office Furniture                                            |
| 2       | Water Supply on Ground                                  | 0.5                           | To provide water connection on ground (Pipeline etc.)            |
| 3       | Fencing to ground                                       | 1                             | To construct fencing to ground to avoid transpassenger vehicles. |
| 4       | Basket Ball Court                                       | 7                             | To construct basket ball court on college ground.                |
| 5       | Gymkhana Building                                       | 10                            | To convert shade into gymkhana Building.                         |

|                                                |                                               |                              |                                                      |                                                   |
|------------------------------------------------|-----------------------------------------------|------------------------------|------------------------------------------------------|---------------------------------------------------|
|                                                |                                               | <b>Total</b>                 | <b>19.81</b>                                         |                                                   |
| <b>Furniture Details</b>                       |                                               |                              |                                                      |                                                   |
| <b>Dean<br/>Student<br/>Affairs<br/>Office</b> | <b>Proposed Furniture with specifications</b> | <b>Quantity<br/>Required</b> | <b>Estimated<br/>Unit Rate<br/>(Rs. in<br/>Lacs)</b> | <b>Estimated<br/>Amount<br/>(Rs. in<br/>Lacs)</b> |
| <b>Dean<br/>Student<br/>Affairs<br/>Office</b> | Office Table With four drawers                | 01                           | 0.4                                                  | 0.4                                               |
|                                                | Table Glass with green table cloth            | 01                           | 0.04                                                 | 0.04                                              |
|                                                | Revolving Chair                               | 01                           | 0.15                                                 | 0.15                                              |
|                                                | Plastic Chairs with cushion                   | 10                           | 0.035                                                | 0.35                                              |
|                                                | Computer Table                                | 01                           | 0.04                                                 | 0.04                                              |
|                                                | Steel Cupboard (Full Size) or Wardrob         | 4                            | 0.07                                                 | 0.28                                              |
|                                                | Steel Cupboard (Small Size)                   | 01                           | 0.03                                                 | 0.03                                              |
|                                                | Mirror (Big Size) 2X5                         | 01                           | 0.02                                                 | 0.02                                              |
|                                                |                                               |                              | <b>Total</b>                                         | <b>1.31</b>                                       |
| <b>Total (a) + (b)</b>                         |                                               |                              |                                                      | <b>49.41</b>                                      |

| 9. Institute Level Fund : Internet Fee |                               |                                                     |                                    |                    |
|----------------------------------------|-------------------------------|-----------------------------------------------------|------------------------------------|--------------------|
| Sr. No.                                | Category                      | Description                                         | Amount (Rs. in lacs)               |                    |
| 1                                      | B\$NL Lease Line subscription | Leased Line payment to be made Quarterly in advance | 21.00                              |                    |
| Total                                  |                               |                                                     | 21.00                              |                    |
| 10. Training & Placement               |                               |                                                     |                                    |                    |
| Sr. No.                                | Item                          | Category                                            | Proposed Expenditure (Rs. in lacs) | Remark             |
| 1                                      | Placement                     |                                                     | 1                                  |                    |
| 2                                      | Phone Bill                    |                                                     | 0.1                                |                    |
| 3                                      | TPO attendant                 |                                                     | 0.32                               |                    |
| 4                                      | Stationary                    |                                                     | 0.1                                |                    |
| Total                                  |                               |                                                     | 1.52                               |                    |
|                                        | Equipment                     |                                                     |                                    |                    |
| Sr. No.                                | Item                          | Unit Cost                                           | Quantity                           | Total cost in lacs |
| 1                                      | Tea / Coffee Vending Machine  | 0.2                                                 | 1                                  | 0.2                |
| 2                                      | Scanner                       | 0.05                                                | 1                                  | 0.05               |
| 3                                      | Color Printer                 | 0.25                                                | 1                                  | 0.25               |
| 4                                      | Desktop Computer              | 0.48                                                | 1                                  | 0.48               |
| Total                                  |                               |                                                     |                                    | 0.98               |

| H. Direct Central Assistance                                                 |                                                                                                                           |          |           |                                 |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|-----------|---------------------------------|
| MODROB/RPS - Dept. Master of Computer Applications   MODROB of CG Laboratory |                                                                                                                           |          |           |                                 |
| Sr. No.                                                                      | Particulars                                                                                                               | Quantity | Unit Cost | Budgeted Expenditure (Rs. Lacs) |
| 1                                                                            | Server 2 Intel® Xeon® E5-2630 (2.30GHz/6-core/95W), HP 16GB PC3L-10600R 4x4GB 1Rank Memory Hot Swapping HDD, Rack Mounted | 1        | 2.06      | 2.06                            |
| Total                                                                        |                                                                                                                           |          |           | 2.06                            |
| MODROB/RPS - Mathematics Dept.                                               |                                                                                                                           |          |           |                                 |
| Sr. No.                                                                      | Particulars                                                                                                               | Quantity | Unit Cost | Budgeted Expenditure (Rs. Lacs) |
| 1                                                                            | Laptop                                                                                                                    | 2        | 0.5       | 1                               |
| 2                                                                            | Copier Machine                                                                                                            | 1        | 0.75      | 0.75                            |
| Total                                                                        |                                                                                                                           |          |           | 1.75                            |
| Grant Total - DCA                                                            |                                                                                                                           |          |           | 3.81                            |

| EXAMINATION Fee 2016-17 |                 |                |                      |              |
|-------------------------|-----------------|----------------|----------------------|--------------|
| Sr. No.                 | Examination     | No of Students | Exam fee per student | Total        |
| 1                       | Winter 2016     | 600 (UG)       | 1500                 | 9            |
| 2                       |                 | 75(PG)+30 MCA  | 1500                 | 1.575        |
| 3                       | Re-registration | 30             | 2700                 | 0.81         |
|                         |                 | 100 Approx     | 300                  | 0.3          |
| 4                       | Summer 2017     | 600 (UG)       | 1500                 | 9            |
| 5                       |                 | 75(PG)+30 MCA  | 1500                 | 1.575        |
| 6                       | Summer Rerm     | 100 Approx     | 300                  | 0.3          |
|                         |                 |                | <b>Total</b>         | <b>22.56</b> |

| Expenditure Budget 2016-17 |                                         |                               |
|----------------------------|-----------------------------------------|-------------------------------|
| Sr. No.                    | Particular                              | Budget (in lakh)              |
|                            |                                         | (Summer 16 & Winter 16 Exams) |
| 1                          | Remuneration to Paper setters           | 3.5                           |
| 2                          | Paper Setting Work stationary + Postage | 0.15                          |
| 3                          | Question paper printing                 | 0.15                          |
| 4                          | Answer book, supplements, stationary    | 4.5                           |
| 5                          | Conduction of the Theory Exam           | 0.8                           |
| 6                          | Assessment work                         | 1.2                           |
| 7                          | Remuneration to Dean Office Bearers     | 0.6                           |
| 8                          | Result Processing work: Stationary      | 0.1                           |
| 9                          | Grade Cards Printing                    | 0.525                         |
|                            | <b>Total</b>                            | <b>11.53</b>                  |

| <b>B. Salary provisions for 4 contract basis personnel</b> |                                                                     |                     |
|------------------------------------------------------------|---------------------------------------------------------------------|---------------------|
| <b>Sr. No.</b>                                             | <b>Post</b>                                                         | <b>Rs. in Laacs</b> |
| 1                                                          | Data entry operator(2) with computer skills @ Rs. 10000/- per month | 2.4                 |
| 2                                                          | Class IV @Rs. 4000/- per month                                      | 0.48                |
|                                                            | <b>TOTAL (B)</b>                                                    | <b>2.88</b>         |
| <b>Total Examination Fee (A) + (B) = Rs. 14.405 laacs</b>  |                                                                     |                     |

## List of Equipment for the year 2016-2017

| Sr. No. | Proposed Item with specification                                                                                                                                                                                                                                                                     | Qty. Required | Estimated Unit Rate (Rs. In Lacs) | Estimated Amount (Rs. In Lacs) | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | COD-reactor and digester assembly- Specification- Spectralab Model 2015 M COD Digestion Apparatus is a Solid block heated unit with provision for 15 samples at a time in 40mm dia Reaction Vessels. All the samples are heated at 1500C within + 1% accuracy with utmost uniformity of temperature. | 1             | 1.25                              | 1.25                           | COD digester equipment is necessary for determination of Chemical oxygen demand (COD). This parameter is one of the important characteristics of wastewater. This gives amount of oxygen required for decomposition of organic matter present in wastewater. In the treatment of wastewater this parameter plays an important role. The measurement of this parameter decides the efficiency of treatment unit. This equipment shall be used for testing for experimentation of B.E. Project and consultancy work. |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                     |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <p>UV-spectrophotometer-<br/> <b>Specification</b>-Data Logger:5000 data points (result, date, time, sample-ID, user ID) ,.Dimensions (H x W x D):215 mm x 500 mm x 460 mm Display:TFT 7 inch WVGA color touch,.Enclosure Rating:IP20 with closed lid Includes:1 x Power Cord (US, EU)<br/> 1x Universal-Adapter<br/> 1x Dust Cover,<br/> Matched pair of 1 inch glass sample cells<br/> Length:460 mm, Operating Conditions:10 to 40 °C, max. 80% relative humidity (non-condensing), Operating Mode:Transmittance (%), absorbance and concentration (wavelength, time),Optical System:Reference beam, spectral Reference beam, spectral<br/> Photometric Accuracy:5 mAbs at 0.0 to 0.5 Abs&lt;1% at 0.5 to 2.0 Abs at 546 nmPhotometric Linearity:0.005 to 2 Abs≤ 0.01 at &gt; 2 Abs with neutral glass at 546 nm Photometric Measuring Range:± 3 AbsPower Requirements:100 - 240 V; 50/60 Hz, Preprogrammed Methods:&gt; 240 Sample Cell<br/> Compatibility:Rectangular: 10, 20, 30, 50 mm, 1 inch; round: 13 mm, 16 mm, 1 inch<br/> Wavelength Accuracy:± 1 nm<br/> Wavelength Range:190 to 1100 nm Wavelength Reproducibility:&lt; 0.1 nm Wavelength Resolution:0.1 nm Wavelength Selection:Automatic, based on method selection</p> | 1 | 7.5 | 7.5 | <p>Heavy metals and metals are prime source of pollution of water stream from metal and heavy metal industries.UV-spectrophotometer is used for determination of concentration of metals and heavy metals from wastewater and it is used for determining absorbance of wastewater sample which is useful for determining efficiency color removal after treatment of wastewater</p> |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|              |                                                                                                                                                                                                                                                                                               |    |      |              |                                                                                                                                                                                                                                                                                                        |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3            | Computer Hp Pavillion 4th Gen Core i3 4170 (3.7 Ghz), RAM 8 GB DDR3, hard disk 1 TB, DVD R/W, 18.5" Monitor                                                                                                                                                                                   | 20 | 0.4  | 8            | 20 more computer are required for departmental computer lab                                                                                                                                                                                                                                            |
| 4            | Primera software-Primavera P6 Professional Project Management                                                                                                                                                                                                                                 | 1  | 1.7  | 1.7          | This software is used for construction project management which is mainly used by PG students related to their seminar and projects                                                                                                                                                                    |
| 5            | MSP software-Microsoft Project Standard version ( available latest vesion)                                                                                                                                                                                                                    | 1  | 0.6  | 0.6          | This software is used by industry for their project management related activities.It will be helpful for B.E. and P.G. students                                                                                                                                                                        |
| 6            | Portable 5TB Portable USB BACKUP PLUS                                                                                                                                                                                                                                                         | 1  | 0.18 | 0.18         | For departmental use                                                                                                                                                                                                                                                                                   |
| 7            | Hard disk 1 TB Portable USB BACKUP PLUS                                                                                                                                                                                                                                                       | 10 | 0.05 | 0.5          | For faculty use                                                                                                                                                                                                                                                                                        |
| 8            | Multiparameter monitoring instrument.<br>* Micro-Controller Based<br>* Multi-point Calibration<br>* Automatic Temp. Compensation<br>* Large Colored Graphic Display<br>* Self Diagnostic Messages<br>* PC connectivity<br>* Inbuilt Battery Back-up<br>* Date/time stamped calibration report | 1  | 5.5  | 5.5          | Multiapara. instrument is used for analysis water and wastewater.Prameters determined with the help of this instruments are pH,ORP, Conductivity, TDS, Salinity, DO, Temperatures & ISE ,GLP Compliant etc..With this equipment the students can carry out experimental analysis of their Project work |
| <b>Total</b> |                                                                                                                                                                                                                                                                                               |    |      | <b>25.23</b> |                                                                                                                                                                                                                                                                                                        |

**Mechanical**

**List of Equipment for the year 2016-2017**

| Sr. No.      | Name of item                                                                                                                                                                                                                                                                   | Unit Cost | Quantity | Total Estimated Cost (in lacs ) | Justification for Procurement                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------------------------|------------------------------------------------------------------------------------------|
| 1            | CFD Centre, one server plus 4 desktop machines, hardware & Network                                                                                                                                                                                                             | 10.25     | 1        | 10.25                           | New Laboratory for PG Programs, For PG Students Practicals, Project & Research           |
| 2            | Microchannel Experimentation Heat Transfer Setup, PCM COATER CUM PHOTO RESIST DRYER, BOTH SIDE EXPOSURE, EASY ETCHER, CHEMICALS:A) For Light Sensitive Coater B) For Easy Etcher. USB Microscope camera Plasma etching TWIN SYRINGE PUMP Micro fluidic pump (Peristaltic Pump) | 7.75      | 1        | 7.75                            | Up gradation Heat transfer laboratory, For PG Students Project & Research                |
| 3            | Vibration Exciter / Shaker, Sine Force (peak) – forced air cooled 196N, Useful Frequency Range 5 Hz – 9 kHz, Effective Mass of Moving Element 0.200 kg Velocity (sine peak) 1.78 m/s, Displacement (pk-pk) – continuous 17.6mm                                                 | 22        | 1        | 22                              | Advanced equipment for Dynamics of machine lab, UG & PG Practicals , Projects & research |
| <b>Total</b> |                                                                                                                                                                                                                                                                                |           |          | <b>40</b>                       |                                                                                          |

| <b>Electrical</b>                             |                                    |                  |                 |                                       |                                                                             |
|-----------------------------------------------|------------------------------------|------------------|-----------------|---------------------------------------|-----------------------------------------------------------------------------|
| <b>List of equipment for the year 2016-17</b> |                                    |                  |                 |                                       |                                                                             |
| <b>Sr. No.</b>                                | <b>Name of item</b>                | <b>Unit Cost</b> | <b>Quantity</b> | <b>Total Estimated Cost (in lacs)</b> | <b>Justification for Procurement</b>                                        |
| 1                                             | Three-phase Power Quality Analyzer | 10               | 1               | 10                                    | Advance Switch gear and protection advance practicals for UG and PG student |
| 2                                             | POWER ELECTRONIC LAB               | 0.7              | 5               | 3.5                                   | Advance Switch gear and protection advance practicals for UG and PG student |
| 3                                             | HIGHT VOLTAGE POWER ELECTRONIC LAB | 3.3              | 2               | 6.6                                   | New purchase for advance power Electronic practicals for UG and PG student  |
| 4                                             | IGBT Characteristics               | 0.198            | 3               | 0.594                                 | New purchase for advance power Electronic practicals for UG and PG student  |
| 5                                             | SCR Triggering Circuit             | 0.1645           | 3               | 0.4935                                | new purchase for power Electronic advance practicals for UG and PG student  |
| 6                                             | SCR Triggering Techniques          | 0.15             | 3               | 0.45                                  | New purchase for advance power Electronic practicals for UG and PG student  |
| 7                                             | SCR Triggering by IC74121          | 0.12             | 3               | 0.36                                  | New purchase for advance power Electronic practicals for UG and PG student  |

|    |                                                                      |       |   |       |                                                                            |
|----|----------------------------------------------------------------------|-------|---|-------|----------------------------------------------------------------------------|
| 8  | Single Phase Controlled Rectifier with Ramp Comparator Firing Scheme | 0.25  | 3 | 0.75  | new purchase for power Electronic advance practicals for UG and PG student |
| 9  | Single Phase Controlled Rectifier with Cosine Firing Scheme          | 0.2   | 3 | 0.6   | New purchase for advance power Electronic practicals for UG and PG student |
| 10 | Single Phase Converter Firing Techniques                             | 0.198 | 3 | 0.594 | New purchase for advance power Electronic practicals for UG and PG student |
| 11 | Single Phase Cycloconvereter                                         | 0.175 | 3 | 0.525 | New purchase for advance power Electronic practicals for UG and PG student |
| 12 | Speed Control of Universal Motor using SCR                           | 0.346 | 3 | 1.038 | New purchase for advance power Electronic practicals for UG and PG student |
| 13 | Speed Control of AC motor using TRIAC                                | 0.3   | 3 | 0.9   | New purchase for advance power Electronic practicals for UG and PG student |
| 14 | Micro Controller based firing Circuit for Controller Rectifier       | 0.21  | 3 | 0.63  | New purchase for advance power Electronic practicals for UG and PG student |
| 15 | SCR Commutation Circuits                                             | 0.18  | 3 | 0.54  | New purchase for advance power Electronic practicals for UG and PG student |

|    |                                                        |       |   |       |                                                                            |
|----|--------------------------------------------------------|-------|---|-------|----------------------------------------------------------------------------|
| 16 | Bedford and Parallel Inverter                          | 0.22  | 3 | 0.66  | New purchase for advance power Electronic practicals for UG and PG student |
| 17 | Step -Up Chopper                                       | 0.162 | 3 | 0.486 | New purchase for advance power Electronic practicals for UG and PG student |
| 18 | Single Phase Bridge Inverter                           | 0.18  | 3 | 0.54  | New purchase for advance power Electronic practicals for UG and PG student |
| 19 | Step - Down Chopper                                    | 0.18  | 3 | 0.54  | New purchase for advance power Electronic practicals for UG and PG student |
| 20 | AC Chopper                                             | 0.2   | 3 | 0.6   | New purchase for advance power Electronic practicals for UG and PG student |
| 21 | MOSFET, IGBT, Transistor & SCR based Step Down Chopper | 0.21  | 3 | 0.63  | New purchase for advance power Electronic practicals for UG and PG student |
| 22 | Buck Converter                                         | 0.2   | 3 | 0.6   | New purchase for advance power Electronic practicals for UG and PG student |
| 23 | Forward Converter                                      | 0.19  | 3 | 0.57  | New purchase for advance power Electronic practicals for UG and PG student |

|              |                                                       |      |   |              |                                                                            |
|--------------|-------------------------------------------------------|------|---|--------------|----------------------------------------------------------------------------|
| 24           | Boost Converter                                       | 0.16 | 3 | 0.48         | New purchase for advance power Electronic practicals for UG and PG student |
| 25           | VIRTUAL LAB                                           | 0.7  | 3 | 2.1          | for teaching staff                                                         |
| 26           | Power convertor moduel                                | 3    | 1 | 3            | Laboratory Use for UG and PG project                                       |
| 27           | Power convertor moduel                                | 4    | 1 | 4            | Laboratory Use for UG and PG project                                       |
| 28           | Earth tester                                          | 2.3  | 1 | 2.3          | Laboratory Use and Testing                                                 |
| 29           | Solar PV Grid Tied System                             | 4.5  | 1 | 4.5          | Laboratory Use for UG and PG project                                       |
| 30           | Matrix Converter                                      | 2.65 | 1 | 2.65         | Laboratory Use for UG and PG project                                       |
| 31           | Speed control of three phase indution motor using VSI | 2.3  | 1 | 2.3          | new purchase for power Electronic advance practicals for UG and PG student |
| 32           | IGBT based switched Reluctance Motor power module     | 2.95 | 1 | 2.95         | new purchase for power Electronic advance practicals for UG and PG student |
| 33           | MOSFET based DC chopper power module                  | 1.5  | 1 | 1.5          | new purchase for power Electronic advance practicals for UG and PG student |
| <b>TOTAL</b> |                                                       |      |   | <b>57.98</b> |                                                                            |

### III

#### List of Equipment for the year 2016-2017

| Sr. No. | Name of Item                                                                                                    | Unit Cost | Quantity | Total Estimated Cost(Rs.) | Justification for procurement |
|---------|-----------------------------------------------------------------------------------------------------------------|-----------|----------|---------------------------|-------------------------------|
| 1       | Desktop Computers, Desktop PC (Processor i5, 4GB RAM, 1 TB HDD, preloaded OS, Antivirus, 18' monitor, keyboard) | 0.5       | 10       | 5                         | To establish new Lab          |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |    |    |                                                                                                                  |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|------------------------------------------------------------------------------------------------------------------|
| 2 | Workstation: Intel Xeon E5-1607(v2/v3) processor, 3.0 GHz, 10 MB L3 Cache or higher. Chipset & Motherboard : Intel C602 chipset or better. Memory : 4 GB DDR3 1600MHz expandable upto 64 GB or better. Hard Disk Drive : 500 GB SATA 7200 rpm UPGRADEABLE TO 2 HDD or higher. Storage Controller : SATA Controller with RAID card 0,1 Graphic card: NVIDIA Quadro K2000 (2 GB) or higher TFT Monitor for high resolution graphics, (1920x1200) 60.9cm/24" | 1.2 | 10 | 12 | To perform practicals and research based projects for final year students in Distributed and Parallel Computing. |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|------------------------------------------------------------------------------------------------------------------|

|       |  |  |  |    |  |
|-------|--|--|--|----|--|
| Total |  |  |  | 17 |  |
|-------|--|--|--|----|--|

|                                                             |  |  |  |  |  |
|-------------------------------------------------------------|--|--|--|--|--|
| Name of Dept. ELECTRONICS AND TELECOMMUNICATION ENGINEERING |  |  |  |  |  |
|-------------------------------------------------------------|--|--|--|--|--|

#### List of Equipment for the year 2016-2017

| Sr. No. | Proposed item with specification                                                                                                                                                       | Qty. Required | Estimated Unit Rate in Lacs | Estimated Amount in Lacs | Justification                                                                                                                           |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Desktop PC (Processor i5, 4GB RAM, 1TB HDD, Preloaded OS, Antivirus, 18' monitor, keyboard)                                                                                            | 30            | 0.5                         | 15                       | (Development of Comp. Lab) Computer Networking Proposed Syllabus in Autonomy. For Practical Purpose and Computing and internet facility |
| 2       | CISCO Routers (256MB Flash, 512 MB DRAM Gigabit Ethernet Interface)                                                                                                                    | 2             | 1.5                         | 3                        |                                                                                                                                         |
| 3       | CISCO Managed Switches (SLM 2024 8 port smart switch)                                                                                                                                  | 2             | 0.35                        | 0.7                      |                                                                                                                                         |
| 4       | Earth Station Antenna: 3.8 meter motorized earth station antenna with prime focus feed system, C band PLL LNBC, Receive Cable and connectors, installation, commissioning and training | 6.5           | 1                           | 6.5                      | theoretical and practical understanding of earth station and required subsystem for various applications                                |

|              |                                                                                                                                                                                                                                                                                                     |     |   |             |                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-------------|-----------------------------------------------------------------------------------------------|
| 5            | V-Sat Network Terminal : 1 Meter Ku band V-Sat Antenna, Ku Band LNBC 10.70 to 12.75 GHz ,Ku band RFT 2W Ku band with modem, RG6 coaxial cable, with connectors and system integration                                                                                                               | 3   | 1 | 3           | Studying Very Small Aperture Terminals (VSAT) and its various topologies                      |
| 6            | Sound Meter: Display 4 Digit LCD with back light, update rate 0.5s Indicators Low battery, freq. & time weighting, min/max Resolution / Accuracy 0.1dB / $\pm 1.5$ dB (ref 94 dB @ 1 kHz) Frequency Range 31.5 Hz to 8 kHz Level Range 30 to 130 dB(A), 35 to 130 dB(C) Frequency Weighting A and C | 0.2 | 2 | 0.4         | This low cost sound meter has been designed for quick noise surveys and sound level checks. D |
| <b>TOTAL</b> |                                                                                                                                                                                                                                                                                                     |     |   | <b>28.6</b> |                                                                                               |

| <b>Applied Mechanics</b>                        |                                                                                                                                                                                                                                                             |                      |                                          |                                      |                      |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|--------------------------------------|----------------------|
| <b>List of Equipment for the year 2016-2017</b> |                                                                                                                                                                                                                                                             |                      |                                          |                                      |                      |
| <b>Sr. No.</b>                                  | <b>Proposed Item with specification</b>                                                                                                                                                                                                                     | <b>Qty. Required</b> | <b>Estimated Unit Rate (Rs. In Lacs)</b> | <b>Estimate Amount (Rs. In Lacs)</b> | <b>Justification</b> |
| 1                                               | Jib Crane<br>Simple Jib crane- Consisting of a tubular compression balance pivoted about an axis & fitted to the base. The tie chain has an adjustable angle bracket and fitted with a 10 Kg extension balance. Complete on wooden base with 1.2 meter Jib. | 2                    | 0.1                                      | 0.20                                 | For UG Practical's   |



|   |                                                                                                                                                                                                                                                                                                                                                                   |   |     |      |                    |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|------|--------------------|
| 2 | <p>Bell Crank Lever</p> <p>Bell Cranck Lever- A teak wooden right angled lever with fulrum at the angle, the horizontal arm is of 75 cm and vertical arm is of 20 cm, a brass spring balance with adjustable wing nut is attached to the shorter arm. The lever arm is with scale and grooved at every 5 cm complete with one sliding weight of 1 Kg.</p>         | 2 | 0.1 | 0.20 | For UG Practical's |
| 3 | <p>Simply Supported Beam</p> <p>Simply supported beam for span 1.0 m - consisting of two compression thrust type 10 Kg tubular spring balances fixed on wooden polished board, a wooden bar with steel back plate. Completed with stirrups, hooks and two 1 Kg weights.</p>                                                                                       | 2 | 0.1 | 0.20 | For UG Practical's |
| 4 | <p>Friction on an Inclined Plane.</p> <p>A frame type stand, made from MS Angle is provided fitted with the above set-up. Comprising of a 75 x 15 cm wooden</p> <p>Superior Quality: Friction slide apparatus</p>                                                                                                                                                 | 2 | 0.1 | 0.20 | For UG Practicals  |
| 5 | <p>Coil Friction Apparatus</p> <p>It consists of aluminium drum and three &amp; frictionless pulleys mounted on wooden board 60x75 cm in size. The pulleys Can be &amp; fixed to give a lap of <math>\frac{1}{4}</math> or <math>\frac{3}{4}</math> full &amp;nbsp;    circumference of the drum, complete with cord and two scale pans, but without weights.</p> | 2 | 0.1 | 0.20 | For UG Practicals  |

|   |                                                                                                                                                                                                                                                                      |    |      |       |                                                |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|-------|------------------------------------------------|
| 6 | Digital Dial Guage (different LC)<br>Range 0-50mm<br>With digital indicator, High resolution, least count=0.001 mm                                                                                                                                                   | 10 | 0.25 | 2.50  | For UG Practicals                              |
| 7 | Digital Extensometer<br>Guage length from 30 mm to 160 mm, Strain guage type, electronic digital display, with high resolution, complete                                                                                                                             | 2  | 1.5  | 3.00  | For UG Practicals & Testing                    |
| 8 | Core Cutter<br>Having diamond core cutter with motor, aluminium stand, rotary hammer for fixing the core cutter, drill bit of size 16 x 250 mm, bullet fastners, setting tools, spanner set, clamping flange punches ranging from 52 mm to 152 mm with length 450 mm | 1  | 3.5  | 3.50  | For UG Practicals & Testing                    |
| 9 | Geo Utility Scanner<br>Frequency range 250 MHz to 350 MHz, penetration depth range 3 m to 4 m, resolution -0.2 m to 0.125 m, complete                                                                                                                                | 1  | 10   | 10.00 | PG research work/ Testing and Consultancy work |

**Total**      **20.00**

### Workshop

#### List of Equipment for the year 2016-2017

| Sr. No. | Name of item                                                                         | Brief Specifications | Quantity | Total Estimated Cost ( in lacs ) | Justification for Procurement |
|---------|--------------------------------------------------------------------------------------|----------------------|----------|----------------------------------|-------------------------------|
| 1       | Hydraulic manual Stacker, Capacity: 2000 kg, Max height : 1600 mm, Lift Height: 1510 | 0.90                 | 1        | 0.90                             | Material handling equipment   |

|   |                                                                                                                                                                                                                                                                             |       |   |       |                                                                                                                                                 |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|-------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Arc Welding Machine, 3 Phase ( 450 ampere)                                                                                                                                                                                                                                  | 1.60  | 1 | 1.60  | This machine can be used to weld material for job orders                                                                                        |
| 3 | Rapid Prototyping Machine ( 3D Scanner )                                                                                                                                                                                                                                    | 6.00  | 1 | 6.00  | A separate research laboratory is proposed for PG production Engineering students. The laboratory can be used by UG students for their projects |
| 4 | Rapid Prototyping Machine ( 3D Printer ), Volume: 1 cu FT / 12"x12"x12" (306 x 306 x 306 mm), Exterior Size: 606 x 645 x 560 mm, Software Compatibility: Windows, Mac, Linux Base,                                                                                          | 4.00  | 1 | 4.00  |                                                                                                                                                 |
| 5 | Manufacturing Process Simulation Centre, Desktop machines and Manufacturing simulations softwares such as Autocast / Z Cast, etc. containing simulation modules like Casting, Heat Treatment, Forging, Extrusion, Rolling, Deep Drawing, Powder Metallurgy, CNC Simulation. | 20.00 | 1 | 20.00 |                                                                                                                                                 |
| 6 | Hypermesh Software, Version 13                                                                                                                                                                                                                                              | 7.50  | 1 | 7.50  |                                                                                                                                                 |

Total 40.00

### Physics Nano technology lab

#### List of Equipment for the year 2016-2017

| Sr. No. | Name of item                                                                                                                                                                                                    | Unit Rate | Quantity Required | Estimated Unit rate Rate (Rs. In Lacs) | Justification                                                                                                                              |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | High Temperature TGDTA (up to 1100°C) Temperature range: Ambient to 1100°C<br>• Balance Type: Horizontal Dual Balance differential type.<br>• TG measurement range: + 400 mg<br>• Maximum sample weight: 200 mg | 18        | 1                 | 18                                     | It is interdisciplinary kit useful for all engineering UG and PG student to understand Characterization of Material. Thermal Analysis (TA) |

|                                                 | <ul style="list-style-type: none"> <li>• TG RMS Noise: 0.1 µg</li> <li>• TG Sensitivity: 0.2 µg</li> <li>• DTA measurement range: + 1000 µV</li> <li>• DTA RMS Noise: 0.03 µV</li> <li>• DTA RMS Sensitivity: 0.06 µV</li> <li>• DTA baseline stability: 0.03 µV</li> <li>• Scan rate: 0.01°C to 150 °C/min</li> <li>• Cooling unit: Forced Air. 1000°C to 50°C within 12 minutes</li> <li>• Measurement atmosphere/Flow rate: Air, inert, corrosive, reactive, vacuum</li> <li>• Purge gas Flow rate: 0 – 1000 ml/min</li> <li>• Provision for evolved gas analysis with FTIR and MS</li> <li>• Temp accuracy: +/-0.1°C</li> <li>• Temp reproducibility: +/-0.15°C</li> <li>• Sample pans- platinum- 5 nos.</li> <li>• Manual flow meter (50-500 ml/min)</li> </ul> |           |              |               | is a group of techniques to study following properties of materials with change in temperature<br>1. Enthalpy<br>2. Thermal capacity<br>3. Mass changes<br>4. Coefficient of heat expansion<br>5. Changes in weight curve |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2                                               | FTIR sepctrophotometer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1         | 12           | 12            | For development of resarch lab. Of nanotechnology and its characterisation                                                                                                                                                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Total</b> | <b>30</b>     |                                                                                                                                                                                                                           |
| <b>MCA</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |              |               |                                                                                                                                                                                                                           |
| <b>List of Equipment for the year 2016-2017</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |              |               |                                                                                                                                                                                                                           |
| Sr. No.                                         | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit Cost | Qty.         | Price in lacs | Justification                                                                                                                                                                                                             |

|   |                                                                                                                                                                                                                                                            |  |    |      |                                                                             |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|------|-----------------------------------------------------------------------------|
| 1 | Blade Server [Intel Xeon processor/ Athelon etc], 64GB RAM (IBM / HP), and Installation & maintenance of servers such as Mail Server, proxy server, active directory server, DNS server, DHCP Server, with necessary Software installation and maintenance |  | 1  | 13   | New purchase for user management, security etc                              |
| 2 | UPS 1KVA for Switches, online with dry batteries                                                                                                                                                                                                           |  | 16 | 0.50 | For Backup purpose to the switch fitted in hostel staff qtrs. & other dept. |
| 3 | Websence licence 1000 users                                                                                                                                                                                                                                |  | 1  | 5.00 | Protecting the internet                                                     |
| 4 | New Antivirus / Renewal Licences for one year of Antivirus Renewal 1000 users                                                                                                                                                                              |  | 1  | 5.00 | Protecting individual machines from virus                                   |
| 5 | Network Attached Storage Server [with SAN server configuration]                                                                                                                                                                                            |  | 1  | 5.00 | for storage of data and services to be shared on intranet in the institute  |
| 6 | Website /Domain Renewal and Registration<br>www.gcekarad.ac.in website / domain registration                                                                                                                                                               |  | 1  | 0.50 | website domain registration                                                 |
| 7 | Cisco Firewall                                                                                                                                                                                                                                             |  | 1  | 5.00 | for redundancy and achieving SLA for downtime                               |
| 8 | Network monitoring and management system                                                                                                                                                                                                                   |  | 1  | 5.00 | for monitoring of network and ports across campus.                          |
| 9 | Knock monitoring system with LED TV display                                                                                                                                                                                                                |  | 1  | 1.00 | for monitoring of sensors of data center and display it.                    |

|       |                                 |  |   |        |                                                                                        |
|-------|---------------------------------|--|---|--------|----------------------------------------------------------------------------------------|
| 10    | Cisco certification for network |  | 1 | 10.00  | Certification will be required for standardisation of network with world wide standard |
| 11    | Cyberoam License Renewal        |  | 1 | 10.00  | Internet Security                                                                      |
| Total |                                 |  |   | 60.00  |                                                                                        |
| Total |                                 |  |   | 318.81 |                                                                                        |

| b. Details of teaching assistantships |                                    |                      |          |                 |
|---------------------------------------|------------------------------------|----------------------|----------|-----------------|
| Name of Dept.                         |                                    |                      |          |                 |
| Sr. No.                               | No. of students                    | Assistantship Amount | Quantity | Total Cost lacs |
| 1                                     | April to July 2016 - 27 students   | 8000 per month       | 4 months | 8.64            |
| 2                                     | Aug to October 2016 - 100 students | 8000 per month       | 3 months | 24              |
| Total                                 |                                    |                      |          | 32.64           |

| R & D   |                                                                                                                                                                                                                                                                                                          |                |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Sr. No. | Activity                                                                                                                                                                                                                                                                                                 | Amount in lacs |
| 1       | Research projects taken by UG /PG students                                                                                                                                                                                                                                                               | 15             |
| 2       | Seed grants for research by faculty including, GeForce GT 630 (Kepler) Graphics Processing Units (for High Performance Computing Lab.) and Intel VTune Amplifier XE [Academic] Named User Licence With Support 1-Year, 1 User - Electronic Linux (for High Performance Computing Lab.) of MCA department | 12             |
| 3       | Research publications in engineering in refereed journals/Conferences(India/Abroad)                                                                                                                                                                                                                      | 3              |
| 4       | Organising conferences on R&D topics                                                                                                                                                                                                                                                                     | 4.5            |
| 5       | Patenting of technologies                                                                                                                                                                                                                                                                                |                |
| 6       | Others Incubation center                                                                                                                                                                                                                                                                                 | 5              |
| 7       | Furniture, stationery, computer, printer                                                                                                                                                                                                                                                                 | 1.5            |
| Total   |                                                                                                                                                                                                                                                                                                          | 41             |

**d. List of trainings/ conferences/ capacity building for the year 2016-17**

**Name of Dept. Civil Engineering and Applied Mechanics**

| Sr. No.      |                                               | Brief Details                                                                            | No of participants | Total Cost lacs |
|--------------|-----------------------------------------------|------------------------------------------------------------------------------------------|--------------------|-----------------|
| 1            |                                               | Advances in civil engineering, June 2016, A.B.Landage and B.A.Konnur                     | 40                 | 3               |
| 2            | <b>Conference, Training, STTP, etc.</b>       | Civil and Electrical engineering joint STTP, April 2016, A.B.Landage and B.A.Konnur, GOA | 50                 | 3               |
| 3            | STTP, One week/Two week                       | Smart techniques civil engineering, May-2016, T.S.Bagwan                                 | 40                 | 3               |
| 4            | STTP, Two week                                | Structure, May 2016, U.L.Deshpande                                                       | 40                 | 4               |
| 5            | STTP, One week                                | Structure, May/Nov 2016, R.L.Wankhade                                                    | 40                 | 3               |
| 6            | 2 days, workshop                              | Structure, P.K.Deshpande, July, 2016                                                     | 40                 | 0.5             |
| 7            | 2 days, workshop                              | Structure, P.K.Deshpande, oct, 2016                                                      | 40                 | 0.5             |
| 8            | 2 days, workshop                              | Structure, U.L.Deshpande, July, 2016                                                     | 40                 | 0.5             |
| 9            | STTP/Conferences/Workshops Outside institute  | All 19 faculties of Civil and Applied Mechanics as per TNA                               | (19*0.20)          | 3.8             |
| 10           | STTP/Conferences/Workshops Outside institute  | All Supporting staff                                                                     | (12*0.10)          | 1.2             |
| 11           | Study Tour: Visit to IITs, OR IISC by faculty | All Faculty                                                                              |                    | 2               |
| <b>Total</b> |                                               |                                                                                          |                    | <b>24.5</b>     |

**Name of Dept. Mechanical Engineering**

| Sr. No. | Conference, Training, STTP, etc.                                  | Brief Details    | No of participants | Total Cost lacs |
|---------|-------------------------------------------------------------------|------------------|--------------------|-----------------|
| 1       | One Week STTP on "Analytical & Experimental Methods in Vibration" | Prof. Maskar     | 40                 | 3               |
| 2       | One Week STTP on "Recent Advances in Fluid Mechanics & CFD "      | Prof. SDK/MADANE | 40                 | 3               |

|       |                                                                                              |                 |  |      |
|-------|----------------------------------------------------------------------------------------------|-----------------|--|------|
| 3     | Enrollment of faculty with M tech for PhD Degree                                             | Prof. M H Yadav |  | 0.1  |
| 4     | Faculty Training in subject Domain                                                           |                 |  | 1.4  |
| 5     | Faculty Training in pedagogy                                                                 |                 |  | 1.1  |
| 6     | Organising inhouse training workshops in Teaching/ Research Subjects                         |                 |  | 3.5  |
| 7     | Participation of faculty in outstation seminar/Conferences/Workshops etc                     |                 |  | 0.8  |
| 8     | Training/Development of technical/Support Staff                                              |                 |  | 0.8  |
| 9     | Exposure/Training of senior teaching/non-teaching members in management capacity development |                 |  | 0.5  |
| 10    | Study Tour: Visit to IITs, OR IISC by faculty                                                |                 |  | 2    |
| 11    | Registration fee for web based training program                                              |                 |  | 0.7  |
| 12    | Deputation of faculty to attend training in industry or other reputed institute              |                 |  | 0.7  |
| 13    | Participation in National and international conference                                       |                 |  | 0.5  |
| 14    | To conduct short term training programs                                                      |                 |  | 2    |
| 15    | To organize national conference                                                              |                 |  | 2    |
| Total |                                                                                              |                 |  | 22.1 |

**Name of Dept. Electrical Engineering**

| Sr. No. | Conference, Training, STTP, etc. | Brief Details                          | No of participants | Total Cost lacs |
|---------|----------------------------------|----------------------------------------|--------------------|-----------------|
| 1       | STTP(9-13 MAY 2016)              | Openware software-<br>Prof S.K.Patil   | 45                 | 3               |
| 2       | STTP(17-28 MAY 2016)             | SCILAB & SCICOS -<br>Prof.V.B.Waghmare | 50                 | 4               |
| 3       | STTP(20-25 JUNE 2016)            | OCTAVE-<br>Prof.V.B.Waghmare           | 45                 | 3               |
| 4       | STTP(6-18 JUNE 2016)             | MATLAB-<br>Prof.V.B.Waghmare           | 50                 | 4               |



|   |                                               |  |              |             |
|---|-----------------------------------------------|--|--------------|-------------|
| 5 | Attending Conference                          |  | 14           | 7           |
| 6 | Study Tour: Visit to IITs, OR IISC by faculty |  |              | 2           |
| 7 | Workshop(Supporting Staff)                    |  | 8            | 1.6         |
|   |                                               |  | <b>Total</b> | <b>24.6</b> |

**Name of Dept. Information Technology**

| Sr. No. | Conference, Training, STTP, etc.                                                | Brief Details              | No of participants | Total Cost lacs |
|---------|---------------------------------------------------------------------------------|----------------------------|--------------------|-----------------|
| 1       | One Week STTP IOT                                                               | B.S.Yelure & A.B.Chaudhari | 50                 | 3               |
| 2       | National Conferences/Recent Trends in IT                                        | N.M.Mule                   | 50                 | 6               |
| 3       | Visit to IITs or IISC                                                           | —                          | 6                  | 2               |
| 4       | Registration fee for web based training program                                 | —                          | 6                  | 0.4             |
| 5       | Deputation of faculty to attend training in industry or other reputed institute | —                          | 8                  | 0.5             |
| 6       | Participation in national & international conference                            | —                          | 6                  | 0.5             |
| 7       | Faculty qualification upgradation                                               | —                          | 5                  | 1               |
|         |                                                                                 |                            | <b>Total</b>       | <b>13.4</b>     |

**Name of Dept. Electronics & TC**

| Sr. No. | Conference, Training, STTP, etc. | Brief Details                                                                                             | No of participants | Total Cost lacs |
|---------|----------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------|-----------------|
| 1       | STTP on RF and Antenna           | 10 day STTP with practical session(May-June 2016)<br>Faculty coordinators: S. U. Pawar and P. S. Tanurkar | 30                 | 3               |
| 2       | VLSI/Embedded                    | 1 week STTP with practical sessions(May-June 2016)<br>Faculty coordinators: R. N. Rathod & A. R. Chavan   | 30                 | 3               |
| 3       | Study tour                       | IISC Bangalore(June 2016)<br>Faculty coordinator: A. B. Patil                                             | 14                 | 2               |
| 4       | In house training program        | IIT Bombay professor(Dr. Abhay Karandikar)<br>Faculty coordinator: M. A. Natu                             | 1                  | 0.5             |

|   |                                       |                                                                          |   |     |
|---|---------------------------------------|--------------------------------------------------------------------------|---|-----|
| 5 | Faculty training in reputed institute | LabView, Communication, Networking, Server Configuration, DSP, VLSI, etc | 7 | 1.4 |
|---|---------------------------------------|--------------------------------------------------------------------------|---|-----|

|       |  |  |  |     |
|-------|--|--|--|-----|
| Total |  |  |  | 9.9 |
|-------|--|--|--|-----|

|                   |  |  |  |  |
|-------------------|--|--|--|--|
| Name of Dept. MCA |  |  |  |  |
|-------------------|--|--|--|--|

| Sr. No. | Conference, Training, STTP, etc.                   | Brief Details                                                | No of participants | Total Cost lacs |
|---------|----------------------------------------------------|--------------------------------------------------------------|--------------------|-----------------|
| 1       | STTP                                               | Research Methodology, Prof. M.D. Malkuatekar, May- June 2016 | 40                 | 3               |
| 2       | STTP                                               | Advanced Computing, Prof. P.D. Sheth, Oct. 2016              | 40                 | 3               |
| 3       | STTP                                               | Web Application Development, Prof. A.D. Homkar, Jun 2016     | 40                 | 3               |
| 5       | For Attending 2 STTP for supporting staff training | 10,000 X 2 X 7=1,40,000                                      | 7                  | 1.40            |
| 6       | Supporting staff training                          | 2X2X10000=40000                                              | 2                  | 0.40            |
| 9       | Attending web based courses                        | All faculty                                                  | 7                  | 1.00            |
| 10      | Attending Industry training                        | All faculty                                                  | 7                  | 2.24            |
| 11      | Attending conferences                              | All faculty                                                  | 7                  | 1.4             |
| 12      | Qualification upgradation (M. Tech to Ph. D.)      | Prof. Shetiye, Prof. Malkauthekar, Prof. Shinde              | 3                  | 1.25            |

|       |  |  |  |       |
|-------|--|--|--|-------|
| Total |  |  |  | 16.69 |
|-------|--|--|--|-------|

|                       |  |  |  |  |
|-----------------------|--|--|--|--|
| Name of Dept. Science |  |  |  |  |
|-----------------------|--|--|--|--|

| Sr. No. | Conference, Training, STTP, etc. | Brief Details                                              | No of participants | Total Cost lacs |
|---------|----------------------------------|------------------------------------------------------------|--------------------|-----------------|
| 1       | STTP by physics dept.            | Nanomaterials: synthesis, characterisation and application | 30                 | 3               |

|   |                                        |                                                                        |    |      |
|---|----------------------------------------|------------------------------------------------------------------------|----|------|
| 2 | STTP by chemistry                      | Recent trends in science and engineering technology                    | 30 | 3    |
| 3 | For Nonteaching training by chem. dept | Lab development. Mangement, personality development, and safety in lab | 40 | 1.25 |
| 4 | Faculty for STTP                       | One week or two week                                                   | 6  | 0.7  |
| 5 | For conferences                        | National international level                                           | 3  | 0.3  |
| 6 | Visit to IIT                           | Visit to Laboratory in IIT                                             | 4  | 1    |
| 7 | Training for non teaching              | Management, personality development etc                                | 2  | 0.2  |
| 8 | Faculty training in subject domain     | synthesis, characterisation, nanotechnology, calaysis                  | 4  | 0.4  |

**Total** 9.85

### Mathematics

| Sr. No.      | Conference, Training, STTP, Faculty awards, etc.                                              | Brief Details                                                                                      | No of participants | Total Cost  |
|--------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------|-------------|
| 1            | To attend Two/one week STTP                                                                   | Interdisciplinary, pedogogy, orientation, contest upgradation, skill management, stress management | 6                  | 3           |
| 2            | Conference                                                                                    | Interdisciplinary, pedogogy, orientation, contest upgradation, skill management, stress management | 4                  | 0.6         |
| 3            | One week STTP on Mathematical applications in engineering and science                         | Jun-16                                                                                             | 30-40              | 3           |
| 4            | Two days conference on Recent trends in Mathematical applications for Engineering and Science | Sep-16                                                                                             | 100                | 6           |
| 5            | Mathematical and Statistical approach in Engineering                                          | Oct-16                                                                                             | 30-40              | 3           |
| <b>Total</b> |                                                                                               |                                                                                                    |                    | <b>15.6</b> |

**Grand Total** 136.64

**g. Budget of reforms for the year 2016-17**

**Name of Dept.**

| Sr. No.      | Details of reforms                                         | Quantity | Total Cost in lacs |
|--------------|------------------------------------------------------------|----------|--------------------|
| 1            | BoS meetings 02 no per Dept.                               | 10       | 5.00               |
| 2            | Apex and Academic council meetings ( 0.5 Lakh per Meeting) | 4        | 2.00               |
| 3            | Board of Management Mettings (0.8 Lakh @ meeting)          | 4        | 3.20               |
| 4            | PG NBA Vists                                               | 1        | 2.00               |
| 5            | MCA NBA Visit                                              | 1        | 1.00               |
| <b>Total</b> |                                                            |          | <b>13.20</b>       |

**Budget TEQIP- Weak Students(2016-17)**

| Sr. No. | Name of Activity                   | Purpose                                               | Cost in Lacs |
|---------|------------------------------------|-------------------------------------------------------|--------------|
| 1       | MCA Students Soft Skill Training   | Soft Skill Training to students                       | 1            |
| 2       | Soft Skill Training to UG Students | Soft Skill Training to students                       | 5            |
| 3       | GATE Training                      | GATE coaching to T.E. & B.E. Students                 | 20           |
| 4       | General Profeciency                | Course work                                           | 9            |
| 5       | Remedial Class Remuneration        | Extra Coaching to failed students in Autonomus ststus | 2            |

| 6                                                     | Finishing school                             | Training on contents beyond syllabus and reinforcement | 7                             |
|-------------------------------------------------------|----------------------------------------------|--------------------------------------------------------|-------------------------------|
| Total                                                 |                                              |                                                        | 44                            |
| g. Details of III for the year 2016-17 (Total 30Lacs) |                                              |                                                        |                               |
| Name of Dept.                                         |                                              |                                                        |                               |
| Sr. No.                                               | Activity                                     | Purpose                                                | Estimated Expenditure in Lacs |
| 1                                                     | Industry Expert Lectures                     | Field knowledge<br>Corporate Etiquettes                | 7                             |
| 2                                                     | Industry Workshop (Including Visit)          | Field knowledge<br>Corporate Etiquettes                | 12.6                          |
| 3                                                     | Industry Expert Board Meeting                | Curriculum/<br>Internship                              | 7.5                           |
| 4                                                     | NDLM Audit Course                            | Autonomy CSP                                           | 3.5                           |
| 5                                                     | Placement 2015-16 and 2016-17                |                                                        | 4                             |
| 6                                                     | Entrepreneurship Development Cell activities |                                                        | 1.2                           |
| 7                                                     | Misc (Stationary/ Phone/ Attendant etc)      |                                                        | 1.2                           |
| Total                                                 |                                              |                                                        | 37                            |

| Hostel Budget 2016-17<br>Budgeted Receipts |              |        |                                       |                      |
|--------------------------------------------|--------------|--------|---------------------------------------|----------------------|
| Sr. No.                                    | Hostel Block | Intake | Admission Fees per student (In Rs./-) | Total Amount in Lacs |
| 1                                          | Hostel B     | 150    | 5,000                                 | 7.5                  |
| 2                                          | Hostel C     | 150    | 5,000                                 | 7.5                  |
| 3                                          | Hostel D     | 180    | 5,000                                 | 9                    |
| 4                                          | Jijau        | 240    | 5,000                                 | 12                   |
| Total                                      |              |        |                                       | 36                   |

**Proposed Expenditure Budget from Table Charges**

Total collection of table charges= 18 lacs

| Sr. No. | Particulars                                                                                         | Budgeted Expenditure (In Lacs) |
|---------|-----------------------------------------------------------------------------------------------------|--------------------------------|
| 1       | 1 Desktop PC, 2 Printers, 1 Laptop (For Office Use)                                                 | 1.2                            |
| 2       | Doctor Appointment on contract Rs. 10,000/- pm for 12 months                                        | 1.2                            |
| 3       | Cleaning Staff for Block B,C,D,Jijau(7,500+7,500+7,500+15,000 respectively per month) for 12 months | 4.5                            |
| 4       | Office Clerk Appointment on contract Rs. 8,000/- pm for 12 months                                   | 0.96                           |
| 5       | Plumber Appointment on contract Rs. 4,000/- pm for 12 months                                        | 0.48                           |
| 6       | Electrician Appointment on contract Rs. 8,000/- pm for 12 months                                    | 0.96                           |
| 7       | Electrical Maintenance Material                                                                     | 4                              |
| 8       | Guest Room Solar System                                                                             | 0.5                            |
| 9       | Carpenter Appointment on contract Rs. 3,000/- pm for 12 months                                      | 0.36                           |
| 10      | Purchase of 150 cots, 250 chairs, 250 Tables                                                        | 7                              |
| 11      | Security, office clerk, etc.( Mobile Phones + Recharge)                                             | 0.25                           |
| 12      | Repairing of cots(Welding strips) 100 x 850                                                         | 0.85                           |
| 13      | Maintainance of RO plant &water cooler                                                              | 0.5                            |
| 14      | Plumbing Material & Spairs, consumables                                                             | 0.5                            |
| 15      | Wooden spairs, hinges, screws, jaws,etc                                                             | 0.5                            |
| 16      | Parking Stands                                                                                      | 10                             |
| Total   |                                                                                                     | 33.76                          |

Total collection of maintainance charges= 18 lacs

Maintenance charges are spend Hostel wise by respective wardens & Financer(students) as per budget submitted by student committee at the commencemnt of next Academic session

## GOVERNMENT COLLEGE OF ENGINEERING, KARAD

### ISTE Student's Chapter RECEIPTS BUDGET 2016-17

| Sr. No. | Items                                                  | Amount in (Rs. ) | Total in (Rs. in lacs) |
|---------|--------------------------------------------------------|------------------|------------------------|
| 1       | BALANCE FROM 2015-16                                   | 90000.00         | 1.95                   |
| 2       | MEMBERSHIP FEE - UG 4 Year = 310*250                   | 77500.00         |                        |
| 3       | MEMBERSHIP FEE - Direct Second Year UG 3 Year = 60*200 | 12000            |                        |
| 4       | MEMBERSHIP FEE - PG - ME 2 year = 60*150               | 9000             |                        |
| 5       | MEMBERSHIP FEE - PG - MCA 3 year = 30*200              | 6000.00          |                        |

### EXPENDITURE BUDGET 2016-17

#### Pro Rata Registration Fee to be paid to ISTE

| Sr. No. | Items                                           | Amount in (Rs. ) | Total in (Rs. in lacs) |
|---------|-------------------------------------------------|------------------|------------------------|
| 1       | REGISTRATION FEE - UG 4 Year                    | 40300.00         | 0.589                  |
| 2       | REGISTRATION FEE - Direct Second Year UG 3 Year | 6600.00          |                        |
| 3       | REGISTRATION FEE - PG - ME 2 year               | 5400.00          |                        |
| 4       | REGISTRATION FEE - PG - MCA 3 year              | 6600.00          |                        |

1.36

#### Expenditure Budget for conducting workshop/seminar/lectures

##### UG PROGRAMS

| Sr. No. | Items                                     | Amount in (Rs. ) | Total in (Rs. in lacs) |
|---------|-------------------------------------------|------------------|------------------------|
| 1       | CIVIL - Expert lectures and seminars      | 8000             | 0.4                    |
| 2       | ELECTRICAL - Expert lectures and seminars | 8000             |                        |
| 3       | MECHANICAL - Expert lectures and seminars | 8000             |                        |
| 4       | IT- Expert lectures and seminars          | 8000             |                        |
| 5       | ENTC - Expert lectures and seminars       | 8000             |                        |

##### PG PROGRAMS

|   |                                          |      |      |
|---|------------------------------------------|------|------|
| 1 | RESEARCH METHODOLOGY WORKSHOP for all PG | 5000 | 0.05 |
|---|------------------------------------------|------|------|

**Institute Level**

| Sr. No.           | Items    | Amount<br>in (Rs. ) | Total<br>in<br>(lacs) |
|-------------------|----------|---------------------|-----------------------|
| 1                 | AVISHKAR | 25000.00            | 0.3                   |
| TOTAL EXPENDITURE |          |                     | 1.3                   |