### भारतीय प्रौद्योगिकी संस्थान रूड़की INDIAN INSTITUTE OF TECHNOLOGY ROORKEE रूड़की—247 667 / ROORKEE - 247 667



### भवन एवं निर्माण कार्य समिति की 33वीं बैठक का कार्यवृत्त MINUTES OF THE 33<sup>rd</sup> MEETING OF THE BUILDING & WORKS COMMITTEE DAY & DATE: MONDAY, THE 9<sup>th</sup> NOVEMBER 2015

### सूची / INDEX

| Item<br>No. | Particulars  | Page (s) |
|-------------|--|----------|
| 33.1        | भवन एवं निर्माण समिति की दिनांक 18.12.2014 को आहुत 32 वी<br>बैठक के कार्यवृत्त की पुष्टि करना ।  | 3        |
|             | To confirm the minutes of the 32 <sup>nd</sup> meeting of the Building & Works Committee held on 18.12.2014.   |          |
| 33.2        | भवन एवं निर्माण समिति की दिनांक 18.12.2014 को आयोजित 32वीं<br>बैठक के कार्यवृत पर की गई कार्रवाई की रिपोर्ट प्राप्त करना।                                | 3        |
|             | To receive a report on the action taken to implement the decisions of the 32 <sup>nd</sup> meeting of the Building & Works Committee held on 18.12.2014. |          |
| 33.3        | आईआईटी रूड़की परिसर में योजना,डिजाईन और एसटीपी के निर्माण<br>से संबंधित प्रस्ताव पर विचार करना ।   | 3        |
|             | To consider the proposal related to Planning, Design and Construction of STP at IIT Roorkee Campus.  |          |
| 33.4        | शारीरिक रूप से विकलांग छात्रों और स्टाफ के लिए विभिन्न<br>विभागों / केन्द्रों में व्हील चेयर लिफटस की स्थापना के प्रस्ताव पर<br>विचार करना ।             | 3        |
|             | To consider the proposal for installation of Wheel Chair Lifts for Physically Challenged students and staff in the Departments/Centres.                  |          |



| 33.5     | बहु गतिविधि केन्द्र (मैक) के पहले से ही पूर्ण निर्माण कार्य के लिए<br>संशोधित अनुमान पर विचार करना ।   | 4              |
|----------|--|----------------|
|          | To consider the revised estimate for the construction of Multi Activity Centre (MAC) already completed.  |                |
| 33.6     | पहले से निर्मित और निर्माण होने वाली नई इमारतों में विद्युत मार<br>की वृद्धि के लिए प्रस्ताव पर विचार करना ।   | 4 <sup>-</sup> |
|          | To consider the proposal for augmentation of electrical load for new buildings already constructed and to be constructed.  |                |
| 33.7     | सदस्य सचिव, राज्य स्तरीय पर्यावरण प्रभाव आकलन प्राधिकरण,<br>देहरादून के पत्र सं0 1285/एसईआईएए दिनांक 19 अक्तूबर 2015 के<br>अनुपालन में परिसर में भवनों के निर्माण के लिए पर्यावरण प्रावधानों<br>के बारे में शपथ पत्र देने पर विचार करना।                                       | 5              |
|          | To consider the letter No. 1285/SEIAA dated 19 <sup>th</sup> October 2015 of the Member Secretary, State Level Environment Impact Assessment Authority, Dehradun regarding Affidavit for compliance of the environment provisions for construction of buildings in the Campus. |                |
| App. 'A' | मवन एवं निर्माण समिति की 18.12.2014 को आयोजित 32वीं बैठक<br>के कार्यवृत पर की गई कार्रवाई की रिपोर्ट।  | 6              |
|          | Report on the action taken to implement the decisions of the 32 <sup>nd</sup> meeting of the Building & Works Committee held on 18.12.2014.  |                |
| App. 'B' | विभागो /केन्द्रो की सूची/List of the Departments/Centre  | 7              |
| App. 'C' | रूप्ये 320.00 की प्रारम्भिक अनुमानित लागत / Preliminary estimated cost of Rs. 320.00   | 8-10           |
| App. 'D' | मल्टी एक्टिविटी केन्द्र के कार्य पूरा होने के बाद का वित्तीय विवरण   | 11             |
|          | Financial statement after completion of the work of Multi Activity Centre.   |                |
| App. 'E' | पहले से निर्मित और निर्माण होने वाली नई इमारतों में विद्युत भार<br>की वृद्धि के लिए रू० 260.00 का प्रारम्भिक लागत ।  | 12-17          |
|          | Preliminary estimate of Rs. 260.00 for augmentation of electrical load for new buildings already constructed and to be constructed.  |                |
| App. 'F' | सदस्य सचिव, राज्य स्तरीय पर्यावरण प्रमाव आकलन प्राधिकरण,<br>देहरादून के पत्र सं0 1285/एसईआईएए दिनांक 19 अक्तूबर 2015 ।   | 18             |
|          | Letter No. 1285/SEIAA dated 19th October 2015 of the Member Secretary, State Level Environment Impact Assessment Authority, Dehradun.  |                |
|          |  |                |



### INDIAN INSTITUTE OF TECHNOLOGY ROORKEE ROORKEE - 247 667



Minutes of the 33<sup>rd</sup> meeting of the Building & Works Committee held on 9<sup>th</sup> November 2015 at 12.00 Noon in the Board Room of the Institute.

The following were present:

| 1. | Prof. Pradipta Banerji, Director                | -Chairman         |
|----|---|-------------------|
| 2. | Prof. Vinod Kumar, Dy. Director                 | - Member          |
| 3. | Prof. Umesh Kumar Sharma                        | - Member          |
|    | Offtg. Chairman, E&W                            |                   |
| 4. | Er. Mohan Mittal, Executive Engineer, UPCL      | - Member          |
|    | (on behalf of the Dy. G.M. UPCL, Roorkee)       | ,                 |
| 5. | Prof. (Mrs.) Pushplata, Architecture & Planning | - Member          |
| 6. | Prof. Z. Ahmad, Civil Engineering Department    | - Member          |
| 7. | Er. Ajay Kumar Sharma, Institute Engineer       | -Member           |
| 8. | Prof. P.K. Ghosh, Dean, Finance & Planning      | - Special Invitee |
| 9. | Shri Prashant Garg, Registrar                   | -Secretary        |
|    |   |                   |

Communication received from the following members for not attending the meeting:

- 1. Er. Pravendra Kumar, Director, MDC, U.P. Housing & Development, Lucknow
- Er. Salek Chand
   M.D., U.P. State Bridge Corporation Lucknow
- 3. Prof. Pramod Agarwal, Department of Electrical Engg.

The Chairman welcomed the members of the 33<sup>rd</sup> meeting of the Building & Works Committee.

The B&WC thanked the under mentioned outgoing members and recorded its appreciation for their valuable contribution in the meetings of the B&WC: -

 Prof. Mahendra Singh Chairman, Estate & Works



- 2. Er. H.K. Upreti
  Chief Engineer, National Highway
  Uttarakhand P.W.D.
  Dehradun-248001 (Uttarakhand)
- 3. Prof. S.P. Gupta Dy. Director
- 4. Prof. Ravi Kumar
  Department of Mechanical & Indl. Engg.
- 5. Prof. Rajendra Prasad
  Department of Electrical Engineering
- 6. Prof. Pradeep Kumar
  Department of Civil Engineering
- 7. Lt. Col. (Retd.) A.K.Srivastava Registrar

The B&WC also welcomed the under mentioned new members and solicited their valuable contribution and active participation in its functioning:

- 1. Prof. Vinod Kumar Dy. Director
- 2. Prof. Umesh Kumar Sharma Offtg. Chairman, Estate & Works
- Er. Pravendra Kumar
   Director, MDC
   U.P. Housing & Development
   Lucknow
- 4. Prof. Pushplata
  Department of Architecture & Planning
- 5. Prof. Pramod Agarwal
  Department of Electrical Engineering
- 6. Prof. Zulfequar Ahmad
  Department of Civil Engineering
- 7. Er. Ajay Kumar Sharma Institute Engineer
- 8. Mr. Prashant Garg Registrar



#### **Deliberations:**

The B&WC has taken the following agenda items for discussion, deliberation and consideration:

### Item No. 33.1: To confirm the minutes of the 32<sup>nd</sup> meeting of the Building & Works Committee held on 18.12.2014.

Having received no comments, the minutes of the  $32^{nd}$  meeting of the Building & Works Committee, as recorded and circulated, were **confirmed**.

## Item No. 33.2 To receive a report on the actions taken to implement the decisions of the 32<sup>nd</sup> meeting of the Building & Works Committee held on 18.12.2014.

The Building & Works Committee **noted** the actions taken on the minutes of the 32<sup>nd</sup> meeting, as reported. (**Appendix 'A'**)

## Item No. 33.3: To consider the proposal related to Planning, Design and Construction of STP at IIT Roorkee Campus.

The B&WC has noted the background, and consider and approved the proposal technically for the odor less STP.

It has been decided that the details of design, selected site and the estimated cost for STP be placed before the B&WC in its next meeting after receipt of DPR from the Consultant, so appointed for the purpose.

## Item No. 33.4: To consider the proposal for installation of Wheel Chair Lifts for Physically Challenged students, faculty and staff in the Departments/Centres.

The B&WC technically considered the proposal of replacement of mechanical doors system both for Phase-I and Phase-II with automatic doors & recommended for approval the Phase-II of the proposal comprising the installation of lifts in rest of the 18 Departments/Centres (Appendix 'B'). The B&WC further suggested that the negotiation with



existing vendor M/S ThirdLeG Mobility Aids be carried out to reduce the cost for the proposed replacement of the doors and additional requirement of the lifts.

It is recommended that a Committee for Negotiation with the above mentioned firm be constituted.

The B&WC has recommended the preliminary estimated cost of Rs. 320.00 lacs as given at **Appendix 'C'** for installation of 18 lifts with automatic doors and replacement of automatic door system in the existing 6 lifts for the physically challenged persons.

## Item No. 33.5: To consider the revised estimate for the construction of Multi Activity Centre (MAC) already completed.

The B&WC considered the financial statement after completion of the work for the construction of Multi Activity Centre (MAC) as given at **Appendix 'D'**. It has been observed that the estimated cost should not be allowed to exceed the sanctioned budgetary cost without the prior approval of the Building & Works Committee/ Board of Governors.

After deliberations, it has been recommended that only net additional cost of Rs. 4.00 lacs be allowed for payment after adjustment on account of liquidated damages for the delay in completion of work and change of contractor from the projected revised estimation by the NBCC.

### Item No. 33.6: To consider the proposal for augmentation of electrical load for new buildings already constructed and to be constructed.

The B&WC considered and technically approved the proposal for augmentation of electrical load for new buildings preliminary estimated cost as worked out to be Rs. 260.00 lacs as given at **Appendix 'E'**. Further, the B&WC suggested that the DG load of existing installations be evenly distributed for optimum utilization".

Item No. 33.7: To consider the letter No. 1285/SEIAA dated 19<sup>th</sup>
October 2015 of the Member Secretary, State
Level Environment Impact Assessment
Authority, Dehradun regarding Affidavit for
compliance of the environment provisions for
construction of buildings in the Campus.

The B&WC considered the letter No. 1285/SEIAA dated 19th October 2015 of the Member Secretary, State Level Environment Impact Assessment Authority, Dehradun regarding the requirement of an Affidavit for compliance of the environment provisions (Appendix 'F'). After deliberations, it has been recommended that the details of the already constructed and to be constructed buildings be placed before the Board of Governors for the necessary approval to consider for submission of the affidavit before SEIAA.

| Details of the Buildings |   |  |  |  |  |
|--------------------------|---|--|--|--|--|
| Already constructed      | To be constructed                       |  |  |  |  |
| Boys' Hostels            | Boys' Hostel                            |  |  |  |  |
| Lecture Hall Complex     | Lecture Hall<br>Complex-II              |  |  |  |  |
| Biotechnology Building   | Students' Activity<br>Centre            |  |  |  |  |
| Girls' Hostel            | Transit Accommodation/                  |  |  |  |  |
| Staff Accommodation-I    | Married Students'<br>Hostel             |  |  |  |  |
| Staff Accommodation-II   |   |  |  |  |  |
| Multi Activity Centre    | *************************************** |  |  |  |  |

The meeting ended with a vote of thanks to the Chair.



# Item No. 33.2 To receive a report on the actions taken to implement the decisions of the 32<sup>nd</sup> meeting of the Building & Works Committee held on 18.12.2014.

The minutes of the 31st meeting of the Building and Works Committee were circulated to the members on 26th December 2014. The status on actions taken on the decisions of the Building & Works Committee are reported as under:

| Item | Abstract of the minutes   | Status of action                         |
|------|---|--|
| No.  |   | taken                                    |
| 32.3 | Proposal for construction of the following Buildings in the I.I.T. Roorkee Campus   |  |
|      | (a) For construction of the Lecture<br>Hall Complex-II<br>(b) For construction of the Boys'<br>Hostel   | The tenders are in process for allotment |
|      | (c) For construction of Students'<br>Activity Centre<br>(d) For construction of Transit<br>Accommodation/ Married students'                             |  |
|      | Hostel including cost, of room furniture  |  |
| 32.4 | Demolition of the under-mentioned residences in the Institute:  |  |
|      | (a) 181/1, 181/2, 181/3, 182/1 & 182/2, Sheel Kunj (05 nos.)  | Demolished.                              |
|      | (b) 97-A, 97-B, 98 &100, Vigyan<br>Kunj & Jai Krishna House, Squash<br>Court of Faculty Club  | In process.                              |
| ·    | (c) 62/1, 62/2, Ravindra Lok<br>(d) 101/1-2, 101/3, 101/4-5,<br>102/1, 102/2, 102/3, 102/4  | Auction work is in progress.             |
|      | (e) 155/1 to 155/5, 156/1 to 156/3, 157/1 to 157/3, 158/1 to 158/3, 148/1, 148/2 (out houses), 155/1 & 155/2 (B' class residences) Vikas Nagar(18 Nos.) | Demolished.                              |



### Annexure-I

| S.  | Department/Centre                |
|-----|----------------------------------|
| No. |                                  |
| 1.  | Arch. & Planning                 |
| 2.  | Biotechnology Old Building       |
| 3.  | Chemistry                        |
| 4.  | Earthquake Engineering           |
| 5.  | Earth Sciences                   |
| 6.  | Hum. & So. Science               |
| 7.  | Hydrology                        |
| 8.  | Mathematics & Physics            |
| 9.  | Management Studies               |
| 10. | Met. & Mat. Engineering          |
| 11. | WRDM                             |
| 12. | AHEC                             |
| 13. | Institute Instrumentation Centre |
| 14. | Institute Computer Centre/ISC    |
| 15. | Geo-metic Division group         |
| 16. | Geo-technical Engineering Lab    |
| 17. | Welding Research Lab             |
| 18. | Continuing Education Centre      |



## SUMMERY OF COST OF PROPOSED PROPOSAL FOR WHEEL CHAIR LIFTS REQUIRED TO INSTALL IN DEPARTMENTS/CENTERS At IIT ROORKEE CAMPUS.

| S No        | Description of Item                       | Amount        |
|-------------|---|---------------|
| 7 1 7       |   |               |
|             |   | (Rs. in Lass) |
| 1.5         |   |               |
| 1           | Total Cost of 18 Nos. wheel Chair Lifts @ | 31,668,750.00 |
| 1 -         | Total Cost of 10 Nos. Wheel Chair Lifts @ | 31,000,730.00 |
|             | 17,59,375 (as per quotation attached)     |               |
| <u> </u>    | 17,39,373 (as per quotation attached)     |               |
| 1           | Contingency (L.S.)                        | 331,250.00    |
|             | Contained (r.3.)                          | 331,230.00    |
|             |   |               |
| 9745275     |   |               |
| 1 2 1 34452 | Total:                                    | 32,000,000.00 |
| حسيد المال  | <u> </u>                                  | 32,000,000.00 |

Zay: 320 lac

10000

(एस०एम०गर्ग)/(S.M. Garg) अधिशासी अभियन्ता (वि०/या) Executive Engineer (E/M) आ०ग्री०सं० लड्डो/॥ Roorkee





Shyam Mohan <shyammohangarg@gmail.com>

### AUTO DOOR LIFE QUOT

1 message

VK's ThirdLeG Mobility Aids <vksthirdleg@gmail.com> To: Shyam Mohan <shyammohangarg@gmail.com> Wed, Oct 28, 2015 at 9:00 AM

Hello sir

please find the attachment of auto door wheelchair lift quot

Thank You & Best Regards,

\*\*ThirdLeG Mobility Aids\*\*
8/7 Seethammal Colony,
First cross street,
Alwarpet,
Chennai-600018,
Ph: 044-42305128, 08056223234.8754408196
www.thirdlegmobility.com
our product video link:

https://www.youtube.com/channel/UCeqGtrGmdOpX5tuZ9bUNIZw?feature=watch

B lift quot lif AUTO DOOR pdf

A.

ThirdLeG Mobility Aids

SUBRAMANIAN NAGAR, 7th STREET,MOOVARASAMPET,MADIPAKKAM,CHENNAI-600091, Contact phone numbers: 044-42305128, 08056223234 vksthirdleg@gmail.com, www.thirdlegmobility.com

### **QUOTATION NO:0777**

DATE:28-10-2015

TO; THE CHAIRMEN, E&W IIT ROORKEE

|   | Description Unit price   |              | Total      |  |
|---|--|--------------|------------|--|
| 1 | Hydraulic wheelchair lift G+1 to G+2 with auto door 800mm center opening,  | 13,75,000.00 | 13,75,000. |  |
|   | cabin SS one side transparent glass,<br>door framed glass ,cabin size 1200 X<br>1400 for wheelchair user ,or four person |              |            |  |
|   | capacity, outer lift shaft covered by transparent polycarbonate sheet 6mm  |              |            |  |
|   | thickness,  Hydraulic lift installation civil work for   |              |            |  |
| 2 | lift frame foundation and pit only,<br>frame work labor charge for one lift  | 1,50,000.00  | 1,50,000.  |  |
| 3 | 14.5 % tax for 13,75,000   |              | 1,99,375.  |  |
| 5 | Installation service tax extra  Transport cost per lift  |              | 35,000.    |  |
|   |  |              |            |  |
|   |  | TOTAL :-     | 17,59,375. |  |

### Instructions:

90% advance for confirmation Balance 10% after the work

One year Warranty
Delivery 60 to 75 days against
90% advance for one lift

### Quote for one lift only

### Specification for hydraulic lift

- 1. Travaling up to 4 to 9 meter
- 2.cabin (4 passenger) size Width 1000 X depth 1400 only for wheelchair user
- 3. Three phase power pack
- 4. Auto door 800 mm opening
- 5.Travaling speed 0.5m/sec
- 6.Capacity 4 persons(278 kg) or wheelchair person with one attender
- 7. Cabin Interior SS and one side Glass finishing.
- 8.ARD-Anti rescue device , when power failure occur it will come to the ground level
- 9. Emergency buzzer, light, fan, key lock provide in cabin
- 10. Quote valid 60days only

. 10 ...



For ThirdLeg Mobility Aids

### Annexure -I

Summary of expenditure occurred for the constructions of Multi Activity Centre at IIT Roorkee.

| 2. Total amount comes after executions of complete work  Difference  Rs. 27.04 Crores  Rs. 24.91 Crores  Total amount paid to NBCC by IITR till date for this work  Balance amount lying with IITR from the sanction amount is Rs. 22.13 Crores – Rs. 19.91 Crores  Now the amount available after sanctions amount of extra work by BOG is Rs.4.91 Crores + Rs.2.22 Crores  Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores  Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13  Crores  Balance  Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  Say 4.00 lacs only                                 | 1.  | Total amount sanctioned by BOG   | =Rs.       | 22.13 Crores                          |
|--|-----|--|------------|---------------------------------------|
| 3. Total amount paid to NBCC by IITR till date for this work 4. Balance amount lying with IITR from the sanction amount is Rs. 22.13 Crores – Rs.19.91 Crores 5. Now the amount available after sanctions amount of extra work by BOG is Rs.4.91 Crores + Rs.2.22 Crores 6. Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores 7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance 8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC 9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  -Rs. 19.91 Crores -Rs. 2.22 Crores -Rs. (-)2.21 Crores -Rs. (-)2.66 Crores -Rs. 2.26 Crores -Rs. 2.26 Crores -Rs. 2.26 Crores -Rs. 0.04 Crores | 2.  | Total amount comes after executions of complete work                       | $=R_{S}$ . | 27.04 Crores                          |
| <ul> <li>4. Balance amount lying with IITR from the sanction amount is Rs. 22.13 Crores – Rs.19.91 Crores</li> <li>5. Now the amount available after sanctions amount of extra work by BOG is Rs.4.91 Crores + Rs.2.22 Crores</li> <li>6. Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores</li> <li>7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores</li> <li>8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC</li> <li>9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores</li> </ul>  |     | Difference   | =Rs.       | <b>4.91</b> Crores                    |
| Rs. 22.13 Crores — Rs.19.91 Crores  Now the amount available after sanctions amount of extra work by BOG is Rs.4.91 Crores + Rs.2.22 Crores  Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores  Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance  Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  | 3.  | Total amount paid to NBCC by IITR till date for this work                  | =Rs.       | 19.91 Crores                          |
| 5. Now the amount available after sanctions amount of extra work by BOG is Rs.4.91 Crores + Rs.2.22 Crores  6. Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores  7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  | 4.  | Balance amount lying with IITR from the sanction amount is                 | =Rs.       | 2.22 Crores                           |
| work by BOG is Rs.4.91 Crores + Rs.2.22 Crores  6. Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores  7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores   |     | Rs. 22.13 Crores — Rs.19.91 Crores   |            |                                       |
| 6. Liquidity damage has to be recovered from NBCC for the delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores  7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores   | 5.  | Now the amount available after sanctions amount of extra                   | =Rs.       | 7.13 Crores                           |
| delay of work as per condition of MOU @10% sanctioned amount from Rs.7.13 Crores  7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores   |     | work by BOG is Rs.4.91 Crores + Rs.2.22 Crores                             |            |                                       |
| amount from Rs.7.13 Crores  7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores   | 6.  | 그는 사람들이 가장 그를 받는 바람이 바람이 되었다. 그는 사람들이 되었다면 하는 사람들이 되었다면 하는 사람들이 되었다.       | $=R_{S}$ . | (-)2.21 Crores                        |
| 7. Amount to be recovered from NBCC due to extra expenditure alone for the change of contractor from Rs. 7.13  Crores  Balance  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  |     |  |            |                                       |
| expenditure alone for the change of contractor from Rs. 7.13 Crores  Balance  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  | . 5 | 그는 사람들은 사람들은 사람들이 가득하는 것이 되었다. 그렇게 되었다면 그 사람들은 사람들이 되었다. 그는 사람들은 사람들이 되었다. |            |                                       |
| Crores  Balance  Rs. 2.26 Crores  8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  | 7.  |  | $=R_{S}$ . | (-)2.66 Crores                        |
| 8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  |     |  |            |                                       |
| 8. Now the after deduction of liquidity damage and extra expenditure done by NBCC due to change of contractor, the amount payable to NBCC =Rs. 2.26 Crores  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66=Rs. 0.04 Crores  |     | 그는 어느 그는 그는 그는 그는 그는 그는 그는 그들은 그는 그들은 그들은 그를 하는 것이 되었다. 그는 그는 그를 하는 것이다.   |            | · · · · · · · · · · · · · · · · · · · |
| expenditure done by NBCC due to change of contractor, the amount payable to NBCC =Rs. 2.26 Crores  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66=Rs. 0.04 Crores   |     |  | =Rs.       | <b>2.26</b> Crores                    |
| amount payable to NBCC =Rs. 2.26 Crores  9. In this way the extra expenditure will be done by IITR at this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  | 8.  |  |            |                                       |
| 9. In this way the extra expenditure will be done by IITR at =Rs. 0.04 Crores this work comes Rs. 4.91-Rs.2.21-Rs.2.66=Rs. 0.04 Crores   |     |  |            |                                       |
| this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores  |     |  | =Rs.       | 2.26 Crores                           |
|  | 9.  |  | $=R_{S}$ . | 0.04 Crores                           |
| Say 4.00 lacs only   |     | this work comes Rs. 4.91-Rs.2.21-Rs.2.66= Rs. 0.04 Crores                  |            |                                       |
|  |     |  | Say 4.0    | 00 lacs only                          |

The approval of additional amount to be obtained =Rs.4.91 Crores

R. K. Agarwal Asstt. Ex. Engr Estate and Works IT Roorkee



# SUMMERY OF COST OF PROPOSED PROPOSAL FOR AUGMENTATION OF ELECTRIC LOAD FOR NEW BUILDINGS ALREADY CONSTRUCTED AND TO BE CONSTRUCTED

| 70,700,000 |  |         |               |
|------------|--|---------|---------------|
| S No       | Description of Item  |         | Amount        |
|            |  | 57.44   | (Rs. In Lacs) |
| 1          | Total Cost of work as per detail en  | alasad  | 254.20        |
|            | riotal Cost of Work da per detail en   | elvaeu. | 29.72         |
| 2          | Contingency (L.S.)   |         | 5,80          |
|            | and the second s |         |               |
|            | Total:   |         | 260.00        |



Bill of Quantity

Name of Work: SITC of H.T. cable for new H.T. Ring Mains at 33 kV Substation including Required. HT. VCB Panels in ITT Roorkes.

|       | Description of Item  | Ref.  | Unit        | Qty         | Rate                                     | Amoun  |
|-------|--|---|-------------|-------------|--|--|
| Ī     | Supply, Un-loading, Erection & Testing commisioning of   |   |             |             | 4.30                                     |  |
|       | 11 kV, 1250 Amps, 31.5 kA for 3 sec HT Incomer cum   |   | F1-31 (5.7- |             |  |  |
|       | Outgoing Vacuum Circuit Breaker panel with bus riser   |   |             |             |  |  |
|       | confirming to the IEC 62271 - 200, IAC - AFLR - 31.5 kA  |   | 500         |             | 15 St. 1 2 St.                           |  |
|       | or 1 sec, PM LSC - 2B, front accessed comprising of the  |   |             |             |  |  |
| [1    | ollowing equipment:  |   | . ,         | 1 6         | Pogresia in S                            |  |
| L     |  |   |             |             |  |  |
| L     |  |   |             |             |  |  |
|       | a) 1250 Amps continuous rating with raychem sleeved  | 52  |             | i e u       |  |  |
|       | Aluminum BusBar.<br>b) Vacuum Circuit Breaker panel with end sheet, castle   |   |             | 1           | V.                                       | 医多克 無禁   |
|       | ock & suitable arrangement shall be made to connect  |   |             |             |  | E. The Contract of the   |
|       | existing panel board of Siemens Make.  |   | [           |             |  |  |
|       | c) Motorised Spring charging mechanism.  |   |             |             |  |  |
|       | d) Cast resin current transformer, 11 kV, 200/1 +1 A,  |   |             |             |  |  |
|       | Suitable VA, CL 5P20 CF1 - 03 Nos  |   |             |             |  |  |
|       | e) Cast resinpotential transformer, 11 kW √3/110V/√3,  |   | [           | 1           |  |  |
|       | 50VA CL-1.0 -03 nos. with desired capacity PT fuses.   |   | 1           | 1 .         |  |  |
| -     |  | ,   | }           | 1           |  | 1  |
|       | f) Accessories like local remote selector switch, breaker  | Francisco (m. 1920)<br>18 mai - Francisco (m. 1921) |             |             | de perío de desas                        | Space of the second  |
|       | control switch (T-N-C) space heater with thermostate, DC   |   | State of    |             |  | 12일 : 10일 12일<br>불립하는 10일 12일  |
|       | & AC control ckt projection through MCB, indicating LED  |   |             |             |  |  |
|       | amps for RYB phases spring charged, DC supplu  |   |             |             |  | ne de la companya de   |
| -  1  | nealthy breaker ON/OFF, Breaker in service, test,  | . **  | go to say   | ( e         | eyesiya volub                            |  |
| ŀ     | disconnected Position.   |   | harana.     | <b>∤</b> .  |  | in the latest  |
| L     |  | 1000  |             |             |  | de la propie   |
|       | g) Multifunction meter with RS 485 port for MODBUS   |   | 179         |             | Privi sajabeli                           | romana sh  |
|       | Communication, equivalent in L&T / Rishabh/  | 1 2 3   |             |             |  |  |
|       | Eimeasure/ Secure  (h) Digital Ammeter with selector switch -01 No.  |   |             |             |  |  |
|       | SCADA compatible IEC 61850 Numerical O/C & E/F   |   | ļ.          |             |  |  |
|       | relay type REF615 of ABB equivalent in Siemens &   |   |             |             |  | Programme (1997)   |
|       | Schneider having following additional features.  |   |             | <u> </u>    |  |  |
|       | (I) Master Trip  | A - 1 - 40  |             |             |  |  |
|       | (ii) Arc flash supervision of circuit breaker, cable and bus   |   | Ž )         |             |  |  |
|       | par compartment.   | **  |             |             |  | is a second of the second of t |
| - [   |  |   | 5 G 184     |             | ne en e | produce and the second of the  |
| ſ     | j) Antipumping Relay   | **************************************              |             | <b> </b>    |  | produce in the second of the s |
|       | k) trip Ckt Supervision Relay.   |   |             | <u>J</u> is |  |  |
| Ī     | Panel shall have following additional features   |   |             |             |  |  |
|       | continous rated closing / tripping coils.  | 9 T   | ] · .       | <u> </u>    |  |  |
|       | ntegral spring charging handle   | N   | }           | }           |  |  |
| 1     | Fully internal are tested (40 kA for 1 sec) as per latest  |   | L           |             |  |  |
|       | EC 62271 - 200 Norms.  |   |             |             |  |  |
|       | Racking in/out, manual closing/ tripping of the CB with  |   |             | 1           |  |  |
|       | compartment door closed.   |   |             | <u> </u>    |  |  |
|       | breaker shall be provided with following features  |   | ]           | M 184       | grafiedes Va                             |  |
|       | Auxiliary switch with 6 no + 6 NG contacts; mounted on   |   | Mar second  |             |  |  |
|       | the draw out portion of the switchgear.  | N 19  |             |             |  | #<br>%4  |
|       | Position/cell switch with 3 NO + 1 NC contacts, one each   |   | <b>]</b>    | Jan 196     | para apa                                 |  |
|       | for TEST and SERVICE position.   |   |             |             |  |  |
|       | Auxiliary switch with 4 NO + 4 NC contacts, mounted on   |   |             |             |  |  |
|       | the stationery portion of the operated mechanically by a   |   |             |             |  |  |
| 1     | sliding lever from the breaker in service position.  | 200   | age de      |             |  |  |
| . 2 L | graph (from the control of the contr | AOR   | Each        | 6           | 1143003.00                               | 6858018.00   |



- 13 -

| [2  | Supply and laying of 3 core Stranded aluminium   |                            |       |        |  |                                     |
|-----|--|----------------------------|-------|--------|--|-------------------------------------|
|     | conductor, XLPE insulated, PVC bedded galvanised flat steel strip armoured cable 300 mm2, 3 core, 11 KV              |                            |       |        |  |                                     |
|     | grade confirming to IS 7098 (part-II with latest   |                            |       |        |  |                                     |
|     | amendments) UE at a depth of 1000 mm below ground. Jevel over a cushion of 100 mm thick fine rever sand all          |                            |       |        |  |                                     |
|     | around and protected with well brunt bricks on sides and   | ্ব প্ৰায়াল প্ৰায়াল<br>ব  |       |        | and the second second second   | and the second second second second |
| 1   | on top put acros. The armouring of the cable shall be<br>properly connected with the earth conductor by clamps       |                            |       |        |  |                                     |
|     | etc.Road crossing should be done by boring and placing   |                            |       |        |  |                                     |
|     | of GI pipe in bore for cable crossing.   | _احاد                      |       |        |  |                                     |
|     | Supply and laying of 3 core Stranded aluminium   | AOR                        | Meter | 4000   | 2760.00  | 11040000.00                         |
|     | conductor, XLPE insulated, PVC bedded galvanised flat  |                            |       | Arr II |  |                                     |
| 1   | steel strip armoured cable 185 mm2, 3 core, 11 KV<br>grade confirming to IS 7098 (part-II with latest                | 9 (1 53.5%)<br>9 (1 53.5%) | 1     |        | žis,   |                                     |
| - 1 | amendments) UE at a depth of 1000 mm below ground  |                            |       |        | Artistantino de la companio del companio de la companio del companio de la companio della companio de la companio della compan |                                     |
|     | level over a cushion of 100 mm thick fine rever sand all   |                            | 1.    |        |  |                                     |
|     | around and protected with well brunt bricks on sides and<br>on top put acros. The armouring of the cable shall be    |                            |       |        |  |                                     |
|     | properly connected with the earth conductor by clamps  |                            |       |        |  |                                     |
|     | etc Road crossing should be done by boring and placing of GI pipe in bore for cable crossing.                        |                            |       |        | in elphil - 10<br>In elphil estings  |                                     |
|     |  | AOR                        | Meter | 850    | 2107.00  | 1790950.00                          |
| . 2 | Supply and laying, termination at both end and testing of  |                            |       | 30.79  |  |                                     |
|     | PVC insulated, PVC sheathed U/G armoured cable 3 1/2 core 300 mm2, 1100 V grade confirming to IS 7098 (part-         |                            |       |        |  |                                     |
|     | Il with latest amendments) UE at a depth of 750 mm   |                            |       |        |  |                                     |
|     | below ground level over a cushion of 100 mm thick fine<br>rever sand all around and protected with fire brunt bricks | # 1                        |       | Ŷ      |  |                                     |
|     | on sides and on top put acros. The armouring of the cable  |                            |       |        |  |                                     |
| 1   | shall be properly connected with the earth conductor by  |                            |       |        |  | in the second second                |
|     | clamps etc.Road crossing should be done by boring and placing of GI pipe in bore for cable crossing.                 |                            |       |        |  |                                     |
| 3   |  | UPPWD                      |       |        |  |                                     |
|     | Supply and laying, termination at both end and testing of  | 501 (s)                    | Meter | 800    | 2124.00  | 1699200.00                          |
|     | PVC insulated, PVC sheathed U/G armoured cable 3 1/2   |                            |       |        |  |                                     |
|     | core 240 mm2, 1100 V grade confirming to IS 7098 (part-  | i i disa                   |       |        |  | 17,000                              |
|     | II with latest amendments) UE at a depth of 750 mm<br>below ground level over a cushion of 100 mm thick fine         | ]                          |       |        |  |                                     |
|     | rever sand all around and protected with fire brunt bricks   | 1                          |       |        |  |                                     |
|     | on sides and on top put acros. The armouring of the cable shall be properly connected with the earth conductor by    | 3                          |       | ļ      |  |                                     |
|     | clamps etc. Road crossing should be done by boring and   |                            |       |        |  |                                     |
|     | placing of GI pipe in bore for cable crossing.   | UPPWD                      |       |        |  |                                     |
|     |  | 501 (r)                    | Meter | 350    | 1789.00  | 626150.00                           |
|     | Supply, installation, testing and commissioning of 11 KV   |                            |       | ,      |  |                                     |
|     | SF6 insulated indoor type ring main unit with load break switches and 1 no. 630 A vaccume circuit breakers (+)       |                            |       |        | H Sandara, sept<br>L   |                                     |
|     | with coupling material, coupling with existing   |                            |       |        |  |                                     |
|     | extensionable (one side) network ring main unit, extensionable arrangement with existing VCB panel.                  |                            |       |        |  | ne stransmi                         |
|     |  | Analysis                   | Each  | 3      | 449802.00  | 1349406.00                          |
|     | 8. supplying and making indoor cable end termination with  |                            |       |        |  |                                     |
|     | heat shrinkable jointing kit complete with all accessories including lugs suitable for 185/240 sqmm size of 3 core,  |                            | 1     |        |  |                                     |
|     | XLPE aluminium conductor cable of 11 KV grade as   | DSR-                       | [     |        |  |                                     |
|     | required.  | 10.4.3                     | Each  | 5      | 7007.00  | 35035.00                            |

(grate)



| 9  | supplying and making indoor cable end termination with<br>heat shrinkable jointing kit complete with all accessories<br>including lugs suitable for 300 sqmm size of 3 core,<br>XLPE aluminium conductor cable of 11 KV grade as<br>required.   | DSR-10.4.4      | Each  | 12  | 7007.00  | 84084.ÖÖ  |
|----|---|-----------------|-------|-----|----------|-----------|
| 10 | Supplying and making outdoor cable end fermination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 300 sqmm size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.  | DSR-10.5.4      |       | 6   | 9400.00  | 56400.00  |
| 1  | Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including lugs suitable for 300 sqmm size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required:  | DSR-10.6.3      |       | 1   | 17331.00 | 17331:00  |
| 12 | Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including lugs suitable for 300 sqmm size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.  | DSR-10.6.4      | Each  | 6   | 17331.00 | 103986.00 |
|    | Supply, erection, testing commissioning and designing of Factory fabricated metal clad dust and vermin proof-floor mounted 1600A cap 440 V, 50 HZ,3 phase and neutral electric feeder pillar double door 1000 mm denth duly powder coated spray painted with separate chamber for instruments and switching and shall be comprise of ampere meter, volt meter, frequency meter, KWH meter, I/C & O/G switches MCB's / MCCB's, C/o switch with extentionable/rotary handle etc. The pillar have 1600Amp, 415V TPN Aluminium bus bar electrolyte as per IS 8623 insulated with heat shrink sleeve, and mounted nonhygroscopic supports with detachable side with hinge and locking. The switches shall be completed with lug and cable gland of suitable size of cables. The fidder pillar should be made with 2 mm CRCA sheet. The fidder pillar should be fixed on M.S. channel 75 mm x 40 mm x 6 mm size and mounted on M.S. angle iron 50 mm x50 mm x5 mm size frame 450 mm height with cross support completed as per direction of site in charge. |                 |       |     |          |           |
|    |   | AOR             | saft  | 100 | 2912.00  | 291200.00 |
| 14 | Providing, laying and fixing 80 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (100 cm deep)and re-filling etc as required.  | DSR-<br>14.13.2 | Meter | 10  | 615.00   | 6150.00   |
| 15 | Providing, laying and fixing 100 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings  |                 |       |     |          |           |
|    | including trenching (100 cm deep)and re-filling etc as required:  | DSR-<br>14.13.3 | Meter | 600 | 846.00   | 507600.00 |
| 16 | Providing, laying and fixing 150 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (100 cm deep)and re-filling etc as required.   | DSR-<br>14.13.4 | Weter | 500 | 1317.00  | 658500:00 |
| 17 | Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.  | DSR-2:22        | Each  | 10  | 146.00   | 1460:00   |

Many



| 18 | Supply and fixing of fire extinguisher, ABC type 6.00 kg capacity (ISI marked IS: 15683 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour proper completion of work   | UPRWD<br>1031(A)      | Each         | 1      | 8842:00          | 8842.00            |
|----|--|-----------------------|--------------|--------|------------------|--------------------|
| 19 | Supply and fixing of fire extinguisher, CO2 type 4.5 kg, capacity (ISI marked IS: 2878 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour proper completion of work  | UPPWD<br>1032         | Each         | .2     | 9874.00          | 19748.00           |
| 20 | Supply and fixing of fire bucket, round bottom, made of G.I. sheet 9-11 litres capacity duly painted as per fire brigade design, supported on hanging bracket, chain and locked, initially filled with fine river sand, water as per directions of Engineer-in-charge                            | UPPWD                 |              |        |                  |                    |
| 21 | Supply and fixing of shock treatment chart(prescribed under I.E. Rules) duly framed with glass and supported from back with hard board or soft board with supply of all material, labour, T & P for proper completion of work  | 1033<br>UPPWD<br>1034 | Each<br>Each | 6<br>5 | 281.00<br>218.00 | 1686.00<br>1090.00 |
| 22 | Supply and laying of 1800 mm x 900 mm x 12 mm thick chequered rubber matting of tested quality   | UPPWD<br>1036         | Each         | 10     | 2319.00          | 23190.00           |
| 23 | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt as required.   | DSR-5:4               | Set          | 9      | 4367.00          | 39303.00           |
| 24 | Earthing with Copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt as required.   | DSR-5,6               | Set          |        | 8939.00          | 8939.00            |
| 25 | Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)  | DSR-5,14              |              | 10     | 812.00           | 8120.00            |
| 26 | Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm) |                       | Meter        | 60     | 103.00           | 6180.00            |
| 27 | Laying of one number PVC insulated and PVC sheathed/<br>XLPE power cable of 1.1 KV grade up to 35 sq mm size<br>direct in ground including excavation, sand cushioning,<br>protective covering and refilling the trench etc including<br>sand cushioning and protective covering as required.    |                       | Metre        | 200    | 181.00           | 36290 00           |
| 28 | do but 35 sqmm to 95 sqmm cable  | DSR-7.1.2             |              | 200    | 188.00           | 37600.00           |
| 29 | do but 95 sqmm to 185 sqmm cable   | DSR-7.1.3             | ow good or   | 200    | 195.00           | 39000.00           |
| 30 | do but 185 sqmm to 400 sqmm cable  | DSR- 7.1.4            | Metre        | 200    | 215:00           | 43000.00           |





|           | 她看着她就是她的女子,只有可以说,她的话,一直说道:"我们的人们的人,我们就不是一个人的人,我们是不是   | GT TV P TO LOUD   | A     | 25 - 25 | Say      | 254,20 lac    |
|-----------|---|-------------------|-------|---------|----------|---------------|
|           |   |                   |       |         | Total Rs | 25,419,810.00 |
| 36        | Cartage of malba  | Civil<br>Approved | Pcum  | 20      | 100.00   | 2000.00       |
| <b>35</b> | S/F of panel mounted flush indicating light LED type with integral circuit suitable for operation of 240 Volt in green/Red/ yellow/ Blue/ White colour (as required).   | AOR               | Each  | 16      | 137.00   | 2192.00       |
| 34        | do-but for 3 1/2 core 300 sqmm PVC cable  | DSR-<br>9,1.30    | Each  | 4       | 867.00   | 3468.00       |
| 33        | do- but for 3 1/2 core 240 sqmm PVC cable   | DSR-<br>9.1.29    | Each  | 2       | 824:00   | 1648,00       |
| 32        | Supplying and making end termination with brass compression gland and aluminium lugs for 3 1/2 x 120 sq mm size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required.  |                   | Each  | 2       | 417:00   | 834.00        |
| 31        | Laying of one number PVC insulated and PVC sheathed/<br>XLPE power cable of 1.1 KV grade up to 35 sq mm size<br>direct in ground including excavation, and refilling the<br>trench etc as required but excluding sand cushioning<br>and protective covering |                   | Metre | 100     | 113.00   | 11300,00      |

A. E. E. (Elegt.)

State Level Environment Impact Assessment Authority, Ajabpur Kala, Mothorowala Road, Dehradun, Uttarakhand.

(Constituted by Ministry of Environment, Forests and Climate Change Government of India.)

To,

Registrar and Estate Officer, I.I.T, Roorkee, Haridwar,

No 12857SEIAA Dated 1 9 October, 2015 Section Stell History Liv I.I.T., Roorkee

Sub- Regarding Environmental Clearance for Construction of Boys Hostel, Lecture Hall Complex, Biotechnology Building, Girls Hostel, Staff, Accommodation-I, Staff Accommodation-II and Multi Activity Centre at I.I.T. Roorkee, Uttarakhand.

Sir,

Please take reference of meeting of SEIAA dated 20th September, 2015. The observations of SEIAA are reproduced here as under:-

"The Authority discussed in length the proposal of LLT Roorkee, for violation of EP Act, 1986 and decided to initiate credible action as applicable to violation cases."

You are requested to submit following documents as per Office Memorandums issued by MoEF, Govt of India-

 An affidavit stating that proponent would not repeat the violation of provision of EIA Notification 2006 (As amended time to time) in future and also that no further construction activity/ .... will be carried out until obtaining Environmental Clearance. A resolution passed by Board of Directors should be submitted

A chronological report stating the phase wise construction,

before and after issuance of EIA Notification dated 14.9.2006."

I have opoken to EC-consultant
Sh. Singh & also email its copy (annexed)
for advise on A 4 B.
Pl. keep track befollow for timely action.

**Member Secretary** 

Institute Engineer