

Indian Institute of Engineering Science and Technology, Shibpur.

Proceedings of the 3rd meeting of the Committee for Building and Infrastructure Development held on 14th March, 2017 at 11.30 a.m. in the Conference Room at the 7th Floor of the Academic and Administrative Building of the Institute.

The following members were present:-

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| 1) Prof. Ajoy Kumar Ray, Director, IEST, Shibpur and | Chairman |
| 2) Prof. Aditya Bandyopadhyay, Dean, Infrastructure, Planning & Management, IEST, Shibpur | Member |
| 3) The Chief Engineer, CPWD, (EZ-I & III), Nizam Palace, Kol-20 | Invitee |
| 4) Mr. Dinesh Kumar Ujjainia, SE, CPWD, as nominee of the Addl. Director General, CPWD, Gol | Member |
| 5) Mr. Pallab Khan, Exe. Engg, Howrah Elec. Division, PWD as nominee of CE-I, Electrical, PWD, WB | Member |
| 6) Mr. Sudip Banerjee, AE, PWD (Civil), Shibpur Sub-Division, as nominee of the Chief Engineer, PWD(HQ), Govt. of WB, | Member |
| 7) Mr. Jagannath Halder, AE, PWD (Elec), B.E. College Electrical Sub-Division, | Member |
| 8) Mr. Subrata Kar, University Engineer, IEST, Shibpur | Invitee |
| 9) Prof. Kalyan Chattopadhyay, Head, Dept. of Civil Engineering, IEST, Shibpur | Invitee |
| 10) Prof. Jagadish Pal, Head, Dept. of Electrical Engineering, IEST, Shibpur | Invitee |
| 11) Prof. Bijan K. Mandal, Head, Dept. of Electrical Engineering, IEST, Shibpur | Invitee |
| 12) Prof. Keya Mitra, Professor, Dept. of Architecture, T & R. P., IEST, Shibpur | Invitee |
| 13) Mr. T. k. Halder, Executive Engineer, KCDI, CPWD | Invitee |
| 14) The Ex. Engg., PWD, Howrah Elec. Div. Onkarmal Jetia Road, Howrah | Invitee |
| 15) Mr. S. N. Datta, Registrar (Acting), IEST, Shibpur and Secretary & | Convenor |

The following members were granted leave of absence

- 1) One member from Administration of MHRD, Gol
- 2) One member from Finance of MHRD, Gol
- 3) Prof. S. K. Chattopadhyay, Department. of Chemistry and member BOG, IEST, Shibpur

At the outset, the Chairman welcomed the members and invitees present in the meeting and took the agenda items for discussion:-

Agenda Item No. 3.01: To consider and confirm the proceedings of the 2nd meeting held on June 21, 2016.

Resolution No. 3.01: The committee confirmed the proceedings of the 2nd meeting of the Committee for Building and Infrastructure Development, IEST, Shibpur held on 21st June, 2016.

Agenda Item No. 3.02: To consider the preliminary estimates total worth of Rs. 12,943.59 lac, phase wise construction plans and estimates as received from the Superintending Engineer, Kolkata Central Circle No.-II, C.P.W.D under his memo no: 23(675)/SE-II/W-I/205, dated 25.10.2016 along with architectural drawings towards the proposed construction of the "1000 capacity hostel for Boys".

The Committee has considered the preliminary estimates total worth of Rs. 12,943.59 lakh, phase wise construction plans, estimates as received from the Superintending Engineer, Kolkata Central Circle No.-II, C.P.W.D under his memo no: 23(675)/SE-II/W-I/205, dated 25.10.2016 along with architectural drawings towards the proposed construction of the "1000 capacity hostel for Boys" and the Report placed by the Dean, Infrastructure Planning and Management. After detailed discussion following have been resolved:

Resolution No. 3.02:

1. This project has been formulated at par with item nos. 14(b), (c), (d), (e) and (f) of the detailed break up of non-recurring expenditure proposed in Expenditure Finance Committee Note towards conversion of

Bengal Engineering and Science University, Shibpur to IEST, Shibpur that has been subsequently approved by the Parliament of India.

The cost estimates of non-recurring expenditure proposed in Expenditure Finance Committee Note were firmed up as per the base year i.e. 2008-09 that have varied in the present estimates due to several reasons as stated under:

- i. Reconfiguration of capacity of students residential facilities as per the requirements arisen due to enhanced students strength and envisaged expansion of academic activities of the institute;
 - ii. It was expected at the time of formulating the proposed non-recurring expenditure that additional land will available. In reality no additional land is available that have left no option other than high rise structure with normal consequence of high proportion of cost of construction of foundation @ of 40% of the superstructure;
 - iii. Escalation of cost of construction to the tune of 262% over that of the base year of 2008-09 as per the specifications in the CPWD rates of schedule;
 - iv. Additional provision over the project cost on (a) contingencies @ 3%, (b) Quality assurance @ 1%, (c) Service tax @ 15% on 40 % of the project cost, (d) Employees contribution on ESIC and EPF, etc.
2. The following preliminary architectural drawings as finalized with CPWD towards the proposed construction of the "1000 capacity hostel for Boys (G+10-storied structure)" are accepted and approved with the corresponding comments:

Project Name: Construction of the 1000-Bedded Hostel at IEST, Shibpur, Howrah			
Drawings prepared by: Office of the Senior Architect (Kolkata), CPWD			
List of the approved Preliminary Architectural Drawings			
Sl. No.	Title	Drawing No.	Comment
1	Ground Floor Plan	SA(KOL)/IEST/PD/01/R3	Alignment of the covered corridor connecting the Hostel Block to the Dining cum Kitchen Block/Recreation Block/Guest House is to be reconsidered.
2	1 st Floor Plan	SA(KOL)/IEST/PD/02/R3	
3	2 nd Floor Plan	SA(KOL)/IEST/PD/03/R2	
4	3 rd Floor Plan	SA(KOL)/IEST/PD/04/R2	
5	Typ. Floor Plan 4 th to 6 th	SA(KOL)/IEST/PD/05/R2	
6	Typ. Floor Plan 7 th to 10 th	SA(KOL)/IEST/PD/06/R2	
7	Layout Plan	SA(KOL)/IEST/PD/09	

3. Regarding the preliminary estimate and phase wise construction plan, the Committee considers it preferable to complete the pile foundation work of the entire building at the 1st phase of construction and thus recommends revised phase wise execution as furnished below.

Broad Scope of Work	Tentative accommodation capacity of students on phase wise completion	
	Phase wise	Cumulative Total
PHASE-I: Construction of Pile foundation work and up to plinth level of the entire hostel building. Construction of the Northern Wing and portion of the Eastern Wing up to the Grid that includes the Lift Lobby. Construction of Kitchen / Dining Block including connecting corridors to the hostel building.	463	463
PHASE-II: Construction of the Southern Wing & Balance Portion of the East-Wing	319	782
PHASE-III: Construction of the Western Wing	478	1260

The Committee advised to revise the phase wise estimates accordingly including corrections (*viz.*, exclusion of electrical sub-station from scope of the estimate as this work will be taken up separately under the up-gradation scheme for electrical power distribution system of the Campus) which are to be reported in the next meeting.

Regarding the service tax component considered in the estimate, CPWD is requested to submit the latest notification on Service Tax Exemption (if any) for construction works in the Educational Institutions those are set up by Government.

4. Fund may be placed to the CPWD based on this estimated value and as per the MOU signed between the CPWD and IEST, Shibpur (i.e., 10% of the estimated cost of the work at the time of A/A & E/S, 23.33% of the estimated cost of the work before award of the work and afterwards as per the cash flow requirement).
5. The CPWD shall take immediate action to complete the necessary soil investigation work and finalize the detailed design and drawings and estimate of the Building Project.
6. The PWD (Electrical Wing) is requested to finalize the design and estimates of the Electrical Sub-Stations, one at the load centre near Central Library taking into consideration the electrical load of the proposed Boy's Hostel and another at the 2nd load center near the Swimming Pool Area of the campus in accordance to the already planned up gradation scheme in consultation with the concerned Committee of the IEST, S.

Agenda Item No. 3.03: To consider the preliminary estimates total worth of Rs. 15,416.95 lac, as received from the Executive Engineer (P)/C-II, C.P.W.D under his memo no: 23(85)/WS/EZ-III/2017/45, dated 11.01.2017 along with architectural drawings towards the proposed construction of the "Lecture Theatre Complex".

The Committee has considered the preliminary estimates total worth of Rs. 15,416.95 lakh, as received from the Executive Engineer (P)/C-II, C.P.W.D under his memo no: 23(85)/WS/EZ-III/2017/45, dated 11.01.2017 along with architectural drawings towards the proposed construction of the "Lecture Theatre Complex" and the Report submitted by the Dean, Infrastructure Planning and Management. After detailed discussion following have been resolved:

Resolution No. 3.03:

1. This project has been formulated at par with item nos. 1(b), (c), (d), 2 and 5 of the derailed break up of non-recurring expenditure proposed in Expenditure Finance Committee Note towards conversion of Bengal Engineering and Science University, Shibpur to IEST, Shibpur that has been subsequently approved by the Parliament of India.

The cost estimates of non-recurring expenditure proposed in Expenditure Finance Committee Note were firmed up as per the base year i.e. 2008-09 that have varied in the present estimates due to several reasons as stated under:

- i. Reconfiguration of Class rooms, Laboratories, Lecture Theatres etc. as per the requirements arisen due to enhanced students strength and envisaged expansion of academic activities of the institute;
 - ii. It was expected at the time of formulating the proposed non-recurring expenditure that additional land will available. In reality no additional land is available that have left no option other than high rise structure with normal consequence of high proportion of cost of construction of foundation @ of 40% of the superstructure;
 - iii. Escalation of cost of construction to the tune, of 262% over that of the base year of 2008-09 as per the specifications in the CPWD rates of schedule;
 - iv. Additional provision over the project cost on (a) contingencies @ 3%, (b) Quality assurance @ 1%, (c) Service tax @ 15% on 40 % of the project cost, (d) Employees contribution on ESIC and EPF, etc.
2. The following preliminary architectural drawings as finalized with CPWD towards the proposed construction of the "Lecture Theatre Complex" are accepted and approved with the corresponding comments:

Project Name: Construction of the Lecture Theatre at IEST, Shibpur, Howrah		
Drawings prepared by: Office of the Senior Architect (Kolkata), CPWD		
List of the approved Preliminary Architectural Drawings		
Sl. No.	Title	Drawing No.
1	Lower Ground Floor Level Plan	SA(KOL) / IEST / PD /744/ L.T. / 01/R2
2	Podium Level Plan (Level + 2500)	SA(KOL) / IEST / PD /744/ L.T. / 02/R2
3	First Floor Plan (Level + 7000)	SA(KOL) / IEST / PD /744/ L.T. / 03/R2

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4	Second Floor Plan (Level + 11500)	SA(KOL) / IEST / PD /744/ L.T. / 04/R2
5	Third Floor Plan (Level + 16000)	SA(KOL) / IEST / PD /744/ L.T. / 05/R2
6	Fourth Floor Plan (Level + 20500)	SA(KOL) / IEST / PD /744/ L.T. / 06/R2

3. Regarding the preliminary estimate it is decided to exclude the construction of electrical sub-station form scope of the estimate as this work will be taken up separately under the up-gradation scheme for electrical power distribution system of the Campus. The provision of the AC in the Lecture Rooms (with 60% diversity factor) totalling to 1000 ton is considered much higher and to be reduced considering the provision for lesser nos. of class rooms and in limited areas of the laboratory spaces. The Committee advised to incorporate the revisions in the estimate as suggested above accordingly (#).

Regarding requirement of phase wise completion plan and corresponding estimates as suggested by the Director, IESTS, it is envisaged that 1st phase of construction should include completion of the entire Lower Ground Floor and portion of the complex (say south east portion) above podium level. The rest portion of the complex above podium level may be completed in the next one/two phases.

Regarding the service tax component considered in the estimate, CPWD is requested to submit the latest notification on Service Tax Exemption (if any) for construction works in the Educational Institutions those are set up by Government.

4. Fund may be placed to the CPWD based on this estimated value and as per the MOU signed between the CPWD and IEST, Shibpur (i.e., 10% of the estimated cost of the work at the time of A/A & E/S, 23.33% of the estimated cost of the work before award of the work and afterwards as per the cash flow requirement).
5. The CPWD shall take immediate action to complete the necessary soil investigation work and finalize the detailed design and drawings and estimate of the Building Project. The CPWD shall also finalize the design electrical load of the Complex in consultation with the IESTS at the earliest.
6. The PWD (Electrical Wing) is requested to reduce load from Sub-station-II in accordance to the already planned scheme by diverting the load to the Sub-station-I and finalize the necessary design and estimate towards up-gradation of the Sub-station-II taking into the consideration the design load of the proposed Lecture Theatre Complex in consultation with the concerned Committee of the IEST, Shibpur.

- Agenda Item No. 3.04: To consider the following two detail estimates as received from the Superintending Engineer, Nabanna Circle, P.W.D under his memo no: 1026/4E-14/16-17, dated 14.12.2016 along with working drawings towards the proposed
- a) "Vertical extension of 3rd floor with steel structure of Richardson Hall"- Estimated value worth of Rs. 1,90,10,498/-
- b) "Vertical extension of 3rd floor with steel structure of Macdonald Hall"- Estimated value worth of Rs. 1,90,10,498/-

The Committee has considered the working drawings and the two detailed estimates towards the proposed Vertical Extensions of the Richardson and Macdonald Halls and the Report placed by the Dean, Infrastructure Planning and Management. After detailed discussion following have been resolved:

Resolution No. 3.04:

1. This project has been formulated at par with item nos. 14(a) of the derailed break up of non-recurring expenditure proposed in Expenditure Finance Committee Note towards conversion of Bengal Engineering and Science University, Shibpur to IEST, Shibpur that has been subsequently approved by the Parliament of India.
2. The following working drawings as submitted by the PWD towards the proposed Vertical Extensions of the Richardson and Macdonald Halls are accepted and approved.

Project Name: Vertical Extensions of the Richardson and Macdonald Halls at IEST, Shibpur, Howrah
Drawings prepared by: Institute of Steel Development and Growth (INDAG)
List of the approved Preliminary Architectural Drawings

Sl. No.	Title	Drawing No.
1	G.A and Detail of Structure	INS/15-16/05/S-03 (Rev-2)
2	G.A and Detail of Structure	INS/15-16/05/S-04 (Rev-2)
3	G.A and Detail of Structure (Staging for Water Reservoir)	INS/15-16/05/S-05 (Rev-2)

- The detail estimate no 35 NABC of 2016-17 worth of Rs. 1,90,10,498/- as received from the Superintending Engineer, Nabanna Circle, P.W.D under his memo no: 1026/4E-14/16-17, dated 14.12.2016 towards Vertical extension of 3rd floor with steel structure of Richardson Hall is accepted and recommended for Administrative Approval and Expenditure Sanction.
- The detail estimate total worth of Rs. 1,90,10,498/- as received from the Superintending Engineer, Nabanna Circle, P.W.D under his memo no: 1026/4E-14/16-17, dated 14.12.2016 towards Vertical extension of 3rd floor with steel structure of Macdonald Hall is accepted and recommended for Administrative Approval and Expenditure Sanction.
- The Committee recommends including thermal insulation between the false ceiling and roof sheeting as barrier against radiant heat transmission through the roof.

Agenda Item No. 3.05: Ratification and recording of the administrative approval of the Director granted towards various estimates above 25 lakh with justification, of PWD (Civil), PWD (Elect.), PHE Dte and other works since 1st meeting of the Committee of Building and Infrastructure Development:

Resolution No. 3.05:

The Committee noted the resolution of the 4th meeting of Committee for the Financial affairs on the action taken report on the resolution 3.05.06 that the estimates having values more than Rs. 25 lakh already been sanctioned by the Director will be placed for formal approval of the committee for Financial Affairs and the BOG in their subsequent meeting with full details and justification. Accordingly, the matter has been placed in the meeting and committee. The Committee ratified the administrative approvals of the Director, as per the following Tables, granted towards various estimates above 25 lakh with justification, of PWD (Civil), PWD (Elect.), PHE Dte and other works since 1st Meeting of the Committee of Building and Infrastructure Development upto 2nd meeting of the Committee:

Summary:

Following are the list of the estimates having value above Rs. 25.00 lakh, which have been approved by the Director during the interim period of the 1st and 2nd meeting of the Building and Infrastructure Development Committee. Total 211 nos. of estimates have been sanctioned during this period, out of which following have the values more than 25 lakh. These estimates have been sanctioned on urgent requirement of the Institute as mentioned below.

	Estimates value of which are above Rs. 25 lakh	Value (Rs)	Est. No		Remarks	Approved On
1	Renovation work of Institute Hospital at Heaton Hall	28,72,234.00	WD/RG/ Est-20/ Hospital/15-16		Urgent administrative requirement.	15.12.2015
	Estimates of PWD (Civil Wing)		Memo No	Est No.		
1	Construction of single storied kitchen cum dining hall for hostel students beside Downing Hall within IEST, shibpur campus during the year 2016-17	39,73,138.00	1055 dtd. 02.05.2016 of Ex.Engg., PWD (Civil)	22 of 2016-17	Urgent requirement towards accommodation of students	19.05.2016
2	Civil Const Work w.r.to Proposed Elec. Lab in Electrical Engg Dept.	29,06,933.00		462 of 2015-16	Urgent academic Requirement	
	Estimates of PWD (Elect. Wing)					

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	Estimates value of which are above Rs. 25 lakh	Value (Rs)	Est. No		Remarks	Approved On
1	Maintenance of different electrical accessories Non Residential (Light/Fan/Plug Points) & repair/replacement of existing fire fighting system & consumption of tentative quantity of diesel oil for DG sets of IEST(BESU), Shibpur, Howrah during the year 2015-16	33,44,384.00	1536/W/HE D-08/2015, dated 13.08.2015 m of S.E, PWD (Elec. Wing)	104/TA of 2015-16 of SEPEC, PWD	As Provision towards Annual Maintenance	13.10.2015
2	Annual Maintenance of compound light, LT panel Board, 4 nos. transformers, hostels, quarters, main building, guest house, science & technology building including pump operation at IEST, shibpur, Howrah, during the financial year 2015-16	55,38,973.00	Do	105/TA of 2015-16 of SEPEC, PWD	As Provision towards Annual Maintenance	13.10.2015
3	Electrical Work w.r.to Proposed Elec. Lah in Electrical Engg Dept.	38,01,133.00		138/TA of 2015 16 of SEPEC, PWD	Urgent academic Requirement	
	Estimates of PHE.Dte (Electrical Division)					
1	Mechanical / Electrical Works for sinking of 2 nos. of Deep Tubewells and allied works at IEST, Shibpur campus	50,91,222.00	2947/ED, dated 21.09.2015 of Ex.Engg., PHE. Dte (Electrical Division)		Urgent requirement for addressing the shortfall.	13.10.2015

Agenda Item No. 3.06: Ratification and recording of the administrative approval of the Director granted towards various estimates of PWD (Civil), PWD (Elect.), PHE Dte and other works since 2nd meeting of the Committee of Building and Infrastructure Development (as per the following Annexure):

- Annexure-I: List of works by PWD (Civil Wing)
Annexure-II: List of works by PWD (Electrical Wing)
Annexure III: List of works by PHE Dte.
Annexure IV (A & B): IWD, IEST, Shibpur

Resolution No. 3.06:

The Committee noted and ratified the administrative approvals of the Director (as per the following Annexure), granted towards various estimates of PWD (Civil), PWD (Elect.), PHE Dte and other works since 2nd Meeting of the Committee of Building and Infrastructure Development:

Summary

The list of the estimates are provided in Annexure-I,II, III & IV. Total 182 nos. of estimates have been sanctioned during the interim period since 2nd. Meeting of the Committee of Building and Infrastructure Development, having total value worth of Rs. 9,03,82,419/-.

ANNEXURE-I -- List of works by PWD (Civil Wing)

Administrative approval granted towards various estimates of PWD (Civil) wing during the period between 2nd and 3rd meeting of the Building Committee				
Sl. No.	Details	Amount (Rs)	Nos. of Est. Value of which are more than Rs. 25 lakh	Remarks
	Adm. Approval			
1	Dated 07.02.2017 (06 no of Est.) Ref: L-44	22,08,882.00	Nil	
2	Dated 07.02.2017 (07 no of Est.) Ref: L-43	23,64,700.00	Nil	
3	Dated 02.01.2017 (05 no of Est.) Ref: L-37	22,89,969.00	Nil	
4	Dated 02.01.2017 (05 no of Est.) Ref: L-36	23,87,059.00	Nil	
5	Dated 02.01.2017 (05 no of Est.) Ref: L-35	20,64,687.00	Nil	
6	Dated 19.09.2016 (34 no of Est.) Ref: L-30	1,22,73,630.00	Nil	
7*	Dated 16.08.2016 (18 no of Est.) Ref: L-27	1,85,08,329.00	One	Urgent requirement towards accommodation of students
8	Dated 19.07.2016 (07 no of Est.) Ref: L-26	33,84,147.00	Nil	
	Total (87 Nos. of Estimates)	4,54,81,403.00	1 (One) No	
	Estimates value of which are above Rs. 25 lakh	Value (Rs)	PWD(Civil) Memo No &	Est No.
7*	Renovation and replacement of damaged roofs of A-type Bldg. (A 45 to 48) for accommodation of students (as hostel) beside the swimming pool, within IEST, Shibpur during the year 2016-17	1,03,37,933.00	341/4E-14/16-17 dtd. 11.07.2016 of SE.(PWD)	09 NBNC of 2016-17 of S.E.(PWD)

ANNEXURE-II -- List of works by PWD (Electrical Wing)

Administrative approval granted towards various estimates of PWD (Elec) wing during the period between 2nd and 3rd meeting of the Building Committee				
Sl. No.	Details	Amount (Rs.)	Nos. of Est. Value of which are more than Rs. 25 lakh	Remarks
A	Adm. Approval			
1	Dated 30.01.2017 (03 no. of Est.) Ref. L-42	11,76,827.00	Nil	
2	Dated 30.01.2017 (10 no. of Est.) Ref. L-41	24,67,787.00	Nil	
3	Dated 30.01.2017 (01 no. Est.) Ref. L-40	14,87,695.00	Nil	
4	Dated 30.01.2017 (01 no. Est.) Ref. L-39	14,80,938.00	Nil	
5	Dated 30.01.2017 (01 no. Est.) Ref. L-38	14,80,938.00	Nil	
6	Dated 18.10.2016 (01 no. Est.) Ref. APRV/PROJ-SAC/EI/L-2	10,75,787.00	Nil	
7*	Dated 05.10.2016 (10 no. Est.) Ref. L-32	1,26,54,655.00	Two	Provision for Annual Maintenance 2016-17
8	Dated 19.09.2016 (11 no. Est.) Ref. L-31	23,26,774.00	Nil	

9	Dated 16.08.2016 (07 no. Est.) Ref. L-28	13,21,792.00	Nil	
10	Dated 19.07.2016 (12 no. Est.) Ref. L-25	72,64,747.00	Nil	
	Total (57 Nos. of Estimates)	3,27,37,940.00	2 (Two) Nos.	
	Estimates value of which are above Rs. 25 lakh	Value (Rs)	PWD (E) Memo No &	Est No.
7*	Maintenance of different electrical accessories Non Residential portion (Light/Fan/Plug Points) & repair of DG sets including fuel at IEST, Shibpur, Howrah during the year 2016-17	33,10,588.00	1341/W/HED-08/2015 dated-20.09.2016 of SE, PWD(E)	112/TA of 2016-17 of SEPEC, PWD
7*	Day to day maintenance of entire E.I work & operation of pump motor set for 8-storied Science and Technology Building (Phase-I, II & III), Main Building, Guest House, Quarters, Hostels, Strret Lights & Sub-Station I & II and operation of D.G. sets (200KVA, 160 KVA & 62.5 KVA) at IEST, Shibpur, Howrag under B.E. College Electrical section, PWD (w.e.f 01.04.2016 to 31.03.2017)	34,22,504.00	1341/W/HED-08/2015 dated-20.09.2016 of SE, PWD(E)	115/TA of 2016-17 of SEPEC, PWD

ANNEXURE-III -- List of works by PHED

Administrative approval granted towards various estimates of PHED during the period between 2nd and 3rd meeting of the Building Committee		
Sl. No.	Details	Amount
1	Dated 02.11.2016 Adm. Approval (Ref. L-34)	
	Providing water storage unit with purifier & cooler arrangement near main building, 8-storied bldg. & Netaji Bhavan inside the IEST, Shibpur Campus, Howrah (including civil construction of cubicles, OH PVC Storage Tanks, Internal Electrification, Etc.) Ref. Memo No: 2024/ED, dated 25.10.2016	Rs. 11,16,510.00
2	Dated 16.08.2016 Adm. Approval (Ref. L-29)	
	Repairing and replacement of existing different dia UPVC pipe line including extension of water supply pipe line at IEST, Shibpur, Howrah Ref. Memo No: 1613/ED, dated 05.08.2016	Rs. 5,75,085.00
	Total (02 Nos. of Estimates)	Rs. 16,91,595.00

ANNEXURE-IV(A) -- List of works by IWD (Civil), IEST, Shibpur

Administrative approval granted towards various estimates of IWD (Civil), IEST, Shibpur during the period between 2nd and 3rd meeting of the Building Committee.				
Sl. No.	Description of work	Financial Year	Approved Estimate Value (Rs.)	Ref. approval date
1	Emergent anti - termite treatment at Heaton hall.	2016 -17	1,46,122.00	20.05.2016
2	Dismantling of existing roof slab of toilet block of Bank portion of Heaton hall.	2016 -17	5,84,813.00	22.04.2016
3	Complete cleaning of water hyacinth (Kachuripana) from Clock tower Pond including transporting and dumping to the dumping ground inside the campus.	2016 -17	57,000.00	09.05.2016
3	Mending good / jointing of broken barbade wires with splicing and tying of the fencing around Clock tower Pond as per direction of EIC..	2016 -17	39,000.00	09.05.2016

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4	"Chilchiling and cutting of grasses / bushes /shrubs from the banks of Clock tower Pond including transporting and dumping to the dumping ground inside the campus." For three side (Two long side and one short side)	2016 -17	99,000.00	09.05.2016
5	Complete cleaning all garbage vats and surrounding areas of vats throughout the campus, transporting and dumping the garbage to the lowland.	2016 -17	72,000.00	11.08.2016
6	Complete cleaning heaps of shredded grass & jungle and trimmed branches of trees throughout the campus, transporting and dumping the same to the lowland.	2016 -17	98,000.00	11.08.2016
5	Anti - termite treatment (post construction measure) to main building South - East portion (ground floor to third floor)."	2016 -17	1,46,052.00	19.08.2016
6	Construction of false ceiling, aluminium window, aluminium partition wall and other miscellaneous work at Electrical department."	2016 -17	5,84,507.00	19.08.2016
7	Emergent repair work of toilet block of Main building toilet blocks (S & P work)	2016 -17	5,77,296.00	10.08.2016
8	Emergent repair work of toilet block of 8 - storied building toilet blocks (S & P work)"	2016 -17	6,86,673.00	10.08.2016
9	Emergent repair work of toilet block of M. N. Dastur building & I. Hall toilet blocks (S & P work)"	2016 -17	1,99,769.00	10.08.2016
10	Renovation of garrage block No. LCH 1 To 10 at backside of Gymnasium inside the campus.	2016 -17	3,21,175.00	12.09.2016
11	Special repair work to Qrt. No. A 34 allotted to NIIST inside the campus	2016 -17	3,24,138.00	12.09.2016
13	Re- construction of class room, studio at Ground floor and first floor of Architecture Department.	2016 -17	1,15,985.00	12.09.2016
14	Painting, vinyl flooring and other allied work Biomechanics lab of the Department of Aerospace Engineering and Applied Mechanics.	2016 -17	79,214.00	18.10.2016
15	Painting, vinyl flooring and other allied work at room no. N 417 at CAD lab of the Department of Aerospace Engineering and Applied Mechanics	2016 -17	39,455.00	18.10.2016
16	Painting, vinyl flooring and other allied work at project office at 8-storied building and room at first floor of main building for the chamber of Associate Deans.	2016 -17	82,210.00	18.10.2016
17	Emergent repair, painting and other miscellaneous work at B - 156 inside the campus.	2016 -17	1,01,289.00	18.10.2016
18	Renovation of allotted space / rooms of CHST at 2nd. Floor of Heaton hall inside the campus.	2016 -17	8,84,018.00	08.11.2016
19	Construction of Partion, false ceiling, at 7 th. Floor at the Office of the Director	2016 -17	2,93,695.00	08.11.2016
20	Construction of IPS flooring in Gymnasium for Yoga classes.	2016 -17	68,641.77	08.11.2016
21	Construction of toilet block at Wind Tunnel block inside the campus	2016 -17	7,47,257.00	08.11.2016
22	Roof top water proofing with 3 mm. thick APP modified bituminous water proofing membrane with mineral finish over the roof of Civil Engineering department and drawing hall at Main building inside the campus.	2016 -17	2,25,049.23	29.11.2016
23	Re-construction of class room adjacent to HOD room for making Model class room and meeting room with toilet facilities for the Department of Civil Engineering."	2016 -17	5,13,557.00	02.12.2016
24	Renovation / Reconstruction of rooms of Examination Department at first floor of main building.	2016 -17	13,21,066.00	25.11.2016

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25	Construction of PVC flooring and painting at Conference room (proposed Computer room) at ground floor of Central Library	2016-17	95,972.00	14.12.2016
26	Construction of Partition, false ceiling, at 7 th. Floor at the Office of the Director	2016-17	2,87,016.00	10.03.2017
Total (26 Nos. of Estimates)			87,89,970.00	

ANNEXURE-IV(B) -- List of works by IWD (Elec.), IEST, Shibpur

Administrative approval granted towards various estimates of IWD (Elec), IEST,S during the period between 2nd and 3rd meeting of the Building Committee.				
Sl. No	Name of Works/ Description:	Financial Year	Approved Est. Value (Rs.)	Ref. of Adm. Approval & Date
1	Gas Charging & Condensor Coil Change of 3Nos Air-Condition Machine Installed at Guest House of Director's Bungalow (Ground Floor) of IEST Campus, Shibpur, Howrah.	2016-17	22,680.00	09.05.2016
2	Annual Semi Comprehensive Maintenance contract of Air-Condition Machine (various type and makes) installed at the Institute.	2016-17	30,500.00	19.10.16
3	Annual Comprehensive Maintenance Contract of Air-Condition Machine (Various type and make) installed in the Institute.	2016-17	88,200.00	19.08.2016
4	Weekly winding, regulating including supply of oil for four face Tower Clock of Indian Institute of Engineering Science and Technology, Shibpur, Howrah. (1st June 2016 to 31st May 2017)	2016-17	22,800.00	24.08.2016
5	Supply and Installation of Recessed Mounted Luminaries with lowering and refixing of ceiling fan of room no-S463,S-464,S-470,Power system Lab, and H.O.D Chamber of Electrical Engineering Department of IEST, Shibpur, Howrah-711103	2016-17	1,97,066.00	19.08.2016
6	Electrical Installation work of Network Clients Laboratory for existing PG course at Ramanujan Central Library of IEST, Shibpur, Howrah-711103.	2016-17	4,19,767.00	26.08.2016
7	Electrical Installation work at Biomechanics Lab at Ground Floor of Main Building in the Department of Aerospace Engineering and Applied Mechanics of IEST, Shibpur, Howrah-711103	2016-17	1,64,389.00	07.10.2016
8	Electrical Installation work at CHST Department 2nd floor of Heaton Hall of Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103.	2016-17	6,22,806.00	07.10.2016
9	Network Enable CCTV installation at Network Clients Laboratory at Ramanujan Central Library of IEST, Shibpur, Howrah-711103.	2016-17	76,547.00	26.08.2016
10	Electrical Installation work at Ground Floor of Heaton Hall (UBI Bank portion) Garage near Neemjil and Ramanujan Central Library of IEST, Shibpur, Howrah-711103.	2016-17	36,756.00	27.01.2017
Total (10 Nos. of Estimates)			16,81,511.00	

Following are the list of the estimates having value above Rs. 25.00 lakh, which have been approved by the Director during the interim period of the 2nd and 3rd meeting of the Building and Infrastructure Development Committee. Out of the total 182 nos. of estimates that have been sanctioned, following are of the values more

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than 25 lakh. These estimates have been sanctioned on urgent requirement and purpose of the Institute as mentioned below.

	Estimates value of which are above Rs. 25 lakh	Value (Rs)	Est. No		Remarks	Approved On
			Memo No	Est. No.		
	Estimates of PWD (Civil Wing)					
1	Renovation and replacement of damaged roofs of A-type Bldg. (A 45 to 48) for accommodation of students (as hostel) beside the swimming pool, within IEST, Shibpur during the year 2016-17	1,03,37,933.00	341/4E-14/16-17 dtd. 11.07.2016 of SE.(PWD)	09 NBNC of 2016-17 of S.E.(PWD)	On Urgent requirement towards accommodation of students. Work is about to commence.	16.08.2016
	Estimates of PWD (Elec.Wing)					
1	Maintenance of different electrical accessories Non Residential portion (Light/Fan/Plug Points) & repair of DG sets including fuel at IEST, Shibpur, Howrah during the year 2016-17	33,10,588.00	1341/W/HE D-08/2015 dated- 20.09. 2016 of SE, PWD(E)	112/TA of 2016-17 of SEPEC, PWD	As Provision towards Annual Maintenance	05.10.2016
2	Day to day maintenance of entire E.I work & operation of pump motor set for 8-storied Science and Technology Building (Phase-I, II & III), Main Building, Guest House, Quarters, Hostels, Strret Lights & Sub-Stations I & II and operation of D.G. sets (200KVA, 160 KVA & 62.5 KVA) at IEST, Shibpur, Howrag under B.E. College Electrical section, PWD (w.e.f 01.04.2016 to 31.03.2017)	34,22,504.00	Do	115/TA of 2016-17 of SEPEC, PWD	As Provision towards Annual Maintenance	05.10.2016

Agenda Item No. 3.07: To consider the recommendation of the project proposal of Rs. 70 Lakh submitted by BSOAT-IEST, Shibpur Association (formed by the alumni batch of 1964 and 1960) for construction of Badal Sarkar Open Air Theatre at IEST, Shibpur to be financed, designed and constructed by BSOAT-IEST, Shibpur Association.

Resolution No. 3.07:

The Committee noted the following:

On 12th June, 2014 BEC 69, the 1969 alumnus of B. E. College, Shibpur made a proposal for 'Badal Sarkar Open Air Theatre' to be constructed within the earmarked location inside the IEST premises. A presentation on the complete architectural and engineering design was then prepared by expert technical team of BEC 69 batch.

The Executive Council in its 44th meeting held on 02.07.2014 (vide resolution no. 44.07.01) approved the proposal of Sri Jayanta Pradhan, President of B. E. College 1969 batch, regarding construction of 'Badal Sarkar Open Air Theatre'.

As per the above resolution an association was formed with members from BECA 1964 and BEC1969 in the name of 'Badal Sarkar Open air Theatre, IEST, Shibpur'. The body so formed has already been registered.

A five members committee was constituted by the Director vide office order no. RMS/5151/16 dated 24.05.2016 (copy attached as Enclosure-1) under the chairmanship of Prof. Aditya Bandyopadhyay, Professor, AT & RP and Dean, IPM to go through the technical aspect of the project Badal Sarkar Open Air Theatre and to

advise the Architect and structural engineer engaged by BSOAT-IEST, Shibpur Association for submission of a comprehensive report and to vet the project for placing it before the building committee for approval. The committee would also monitor the progress of the construction work and oversee the construction work as per the design on behalf of the institute. The committee met on 23.06.2016, 13.02.2017, and 24.02.2017.

A comprehensive report with detailed drawings both Architectural and Structural along with estimate of Rs. 70 lakh was submitted by both the Architect and Structural engineer incorporating all the suggestions. In the meeting of the Technical committee held on 24.02.2017 the project was vetted. Detailed drawings both Architectural and Structural along with estimate are enclosed as Enclosure-6.

It is mentioned in the report that, in order to phasing out the stages of construction it is desirable to divide the PHASE I work in two. One being the construction of the stage and back-stage portion and other being the gallery for 950 viewers with toilet facilities under the gallery as envisaged in the PHASE I of Concept Plan. Of these, estimated cost of construction for the stage and back-stage portion will be Rupees seventy lakh approximately and that for the Gallery with toilet facilities will be approximately Rupees one Crore thirty-five lakh.

The construction of PHASE II which will come up at a later stage will consist of an extended gallery accommodating additional 980 viewers. The portion below the gallery will accommodate other recreational and cultural activities like film screening, rehearsal areas, archive, and seminar rooms for different activities. The estimated cost of construction will be approximately Rupees one Crore eighty-eight lakh.

Members of the Technical Committee vetted the project and signed all the documents to place the project for consideration and approval of the appropriate authority.

The Committee has considered the Report submitted by the Technical Committee and approved the same. It was also resolved that the recommendation of the committee will be sent to the Committee for Financial Affairs and to the BOG for their consideration and approval.

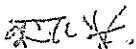
The meeting ended with vote of thanks to the Chair.



(S. N. Datta)

Registrar (Acting), IEST, Shibpur

Approved



(Prof. Ajoy Kumar Roy)
Chairman,
Committee for Building and Infrastructure Development &
Director, IEST, Shibpur