



**National Institute of Technology
Rourkela**

MINUTES

**31st Meeting of
Building & Works Committee**

DATE : 8th August, 2018 (Wednesday)
TIME : 09.30 A.M.
VENUE: Board Room, NIT, Rourkela



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला
National Institute of Technology, Rourkela

Minutes of the 31st Building & Works Committee, National Institute of Technology, Rourkela held at 09.30 AM on 08.08.2018 (Wednesday) in the Board Room of the Institute.

Members Present:

1. **Prof. Animesh Biswas,**
Director & Chairman,
BWC, N.I.T., Rourkela
2. **Shri Ajaya Kr. Nayak, DGM**
PL No.917095
Civil Engineering, Town Engineering Department,
SAIL, RSP, Rourkela., Qr. No.C-2, Sector-1, Rourkela.
3. **Shri Vinod Kr Shrivastava, DGM**
PL. No.041492
Refrigeration & Air Conditioning, RSP,
SAIL, RSP, Rourkela
Qr. No.B/ 56, Sector-5, Rourkela-769 002
4. **Prof. C. R. Patra**
Professor, CE
NIT, Rourkela.
5. **Prof. J. Bera,**
Professor, CR &
Dean (PD), NIT, Rourkela.
6. **Er. S.K. Upadhyay,**
Registrar & Secretary, BWC,
NIT, Rourkela

Invitees Present:

7. **Mr. N.R. Behera,** (Representative of Mr. B.K. Pati, EE, PWD)
AEE, R&M, Rourkela
8. **Prof. P. Sarkar,**
PIC(Civil Const.), NIT Rourkela
9. **Prof. R. Davis,**
PIC(Civil Maint), NIT, Rourkela
10. **Prof. S. Samanta,**
PIC(Elect. Const.), NIT Rourkela
11. **Prof. S. Karmakar,**
PIC(Elect. Maint.), NIT Rourkela
12. **Prof. S. Murugan,**
PIC(AC), NIT Rourkela
13. **Mr. Joydip Mondal**
Executive Engineer, NIT Rourkela
14. **Mr. Rajesh Sahoo**
Engineer, Estate, NIT Rourkela

Member / Invitee Absent:

1. **Shri Madan Mohan**
DDG(HE), MHRD
New Delhi- 1100012.

A) GENERAL AND PROCEDURAL MATTERS.

BWC: 31 (2018)-01: Welcome to the members by the Chairman.

The Director and Chairman BWC welcomed all the members to the meeting.

BWC: 31 (2018)-02: Confirmation of the minutes of the 30th Meeting of the BWC held on 28.03.2018.

The minutes of the 30th Meeting were sent to the members. No comments were received from the members.

BWC confirmed the minutes.

BWC:31 (2018)-03: To report on the action taken on the decisions made in the 30th Meeting of BWC held on 28.03.2018 and to discuss matters arising out of the minutes.

The report on the action taken on the decisions made in the 30th Meeting of the BWC held on 28.03.2018 is presented for BWC's consideration.

The BWC noted the above.

[Annexure-A1, Page No. 01-02]

B) REVIEW OF ONGOING PROJECTS:

BWC: 31 (2018)-04: Review of ongoing Civil Projects & Project in the Pipeline.

A report on the progress of ongoing Civil Projects is enclosed for perusal of the Committee.

The BWC noted the above.

[Annexure-A2, Page No.03]

BWC: 31 (2018)-05: Review of ongoing Electrical Projects & Project in the Pipeline.

A report on the progress of ongoing Electrical Projects is enclosed for perusal of the Committee.

The BWC noted the above.

[Annexure-A3, Page No. 04-05]

C) APPROVAL FOR PROJECTS: (PART-'A')

BWC: 31 (2018)-06: Proposal for New Projects.

1. Establishment of park.

Over the years, there has been large increase in the population of Students, Faculty and Staff at NIT, Rourkela. There is demand from the residence of our institute for construction of a Park. Presently there is no facility in our institute for recreation. In view of the above, it is

proposed to construct a park. Due to constraint of fund the park may construct phase-wise. In first phase, boundary wall and area grading is to be taken up.

Detailed BOQ & estimate have been prepared and the estimate amounts to **Rs.40,26,835.00** (copy enclosed in annexure).

It is proposed to invite open tenders through advertisement in News Papers and NIT website for the above work.

BWC approved the proposal in principle and advised to make a budget provision for the same. Executive Engineer was (EM) was advised to prepare a programme schedule for the above for execution.

[Annexure-A4, Page No. 06-07]

2. Declaration of Estate Management Department as an Emergency unit.

Estate Management is serving around six thousands student and two thousands campus in mates round the clock. Electrical Supply, water supply and other activities are attended on highest priority basis as on when required.

Since Estate staffs are regularly deployed during off office hours to meet the emergency, it is highly necessary to declare this Dept. as an emergency unit like medical service in the Institute. This will be facilitated to assigned duties during off office hours and during Holidays to provide faster and better service.

It was decided that Medical, Electrical and Water supply personnel will be considered as emergency staff.

3. Renovation of campus Pump House and Procurement of New Pumps.

A committee was constituted for replacement/ repair of break down pumps sets of campus house. Committee visits the campus pump house and submits the report with following recommendations:-

- a) In order cater the water supply in the campus area 3 nos ne pumps of 70 HP each may be procured.
- b) Procure new common panel for 5nos pumps.
- c) Construct new panel room for common panel.
- d) One store room and one sitting room for staff.
- e) To appoint/ depute a separate technician with mechanical background.

An estimate has been prepared and this amounts to **Rs.42, 59,913.00** (copy enclosed in annexure).

BWC approved the proposal in principle. The budget provision may be made for the proposal so that this can be implanted in FY 2019-20.

[Annexure-A5, Page No. 08-12]



4. Tile flooring for Homi Bhaba Hall of Residence.

At present there is IPS flooring in Homi Bhaba Hall of residence. All the other Hall of residence has tiles flooring. In this regard several complaints have been received by Estate office from the boarders of HB Hall. In view of the above, it is proposed to construct new tiles flooring at HB Hall of residence.

An estimate has been prepared and this amounts to Rs.37, 75,720.00 Lakhs (copy enclosed in annexure).

BWC approved the proposal in principle. The budget provision may be made for the proposal so that this can be implanted in FY 2019-20.

[Annexure-A6, Page No. 13]

5. Installation of Air Conditioners in remaining class rooms in Lecture Hall Complex No-I.

30 nos. of Air Conditioners installed in 14 Class rooms and Labs of Lecture Hall Complex No-I. Remaining class rooms to be provided with Air Conditioners facilities.

An estimate has been prepared and this amounts to Rs. 95, 37,944.72 (copy enclosed in annexure).

BWC approved the proposal in principle. The budget provision may be made for the proposal so that this can be implanted in FY 2019-20.

[Annexure-A7, Page No. 14-16]

6. Installation of Additional Transformers in SS-8 and SS-2 in NIT, Rourkela.

Since 72nos of AC will be installed at Lecture Hall Complex No-I. The total amps/phase will be aprox.700Amps. Hence to cater the above load additional one transformer of 750 KVA with new bay to be constructed.

To cater additional load of FRA, FRB & FRS one transformer 750KVA with bay to be constructed.

An estimate has been prepared and this amounts to Rs. 61, 29,009.00 (copy enclosed in annexure).

BWC approved the proposal in principle. The budget provision may be made for the proposal so that this can be implanted in FY 2019-20.

[Annexure-A8, Page No. 17-18]

7. Installation of Elevator at Faculty Residence and Faculty Residence (Small).

Since all the buildings are multi-storied buildings and in order to make it suitable for especially abled persons these elevators are necessary. This will be cost Rs.1.53 Crores, approximate Price Including of GST.

Lift Solution	Unit	UNIT PRICE	GST	Unit Price	Total Unit Req.	TOTAL PRICE (Approx.)
PASS- CS EXT and OLD FR 6PAX	1	₹1,229,962.00	233,993.00	14,63,956.00	7	1,02,47,692.00
10 pass- FR SMALL 10 pass- FR SMALL	1	₹2,027,447.00	364,940.00	23,92,388.00	1	23,92,388.00
SMALL 15 PASS FR SMALL 15 PASS	1	₹2,198,803.00	395,785.00	25,94,588.00	1	25,94,588.00
One Crore fifty two lacs thirty four thousands six hundred sixty eight only.						1,52,34,668.00

Technical Specification of elevators was enclosed in annexure).

BWC approved the proposal in principle. BWC advised that the total allocation of grant by Ministry of Social Justice and Empowerment should be presented to take a decision regarding budget provision for the above proposal.

[Annexure-A9, Page No. 19-24]

8. Awarding Construction of Lawn Tennis and Basket Ball Court to CPWD.

There was proposed from students to build two nos. international standard asphalt base synthetic flooring lawn Tennis court and one Basket Ball court. This proposal was approved in 30th BWC meeting. CPWD is taking up the work of construction of indoor stadium at our Institute. As CPWD have enough experience in above mentioned specialized work. It is proposed to award the construction of Lawn Tennis court and Basket Ball court to CPWD (copy enclosed in annexure).

BWC approved the proposal.

[Annexure-A10, Page No. 25]

9. HVAC works in Golden Jubilee Building

A meeting was held on 17th May, 2018 regarding Central Air Conditioning facility to be provided in Golden Jubilee Building. The report of the committee is enclosed in annexure.

BWC advised to submit the estimate for the above proposal and it should be included in the present contract awarded to M/s SPCL.

[Annexure-A11, Page No. 26-27]

D) APPROVAL OF BOQ AND ESTIMATE FOR TENDERING NEW PROJECT [PART-'B']

BWC: 31 (2018)-07: PROPOSAL FOR APPROVAL OF BOQ AND ESTIMATE FOR TENDERING NEW PROJECT

1. Provision of Hydro insulation on roof top of Academic buildings, Hostels and Residential Quarters.

It is observed that there is seepage of water from roofs of some of the Academic Buildings, Hostels and Residential Quarters. In this regard, complaints have been received by the Estate Maintenance office from concerned users. In some of the buildings, the seepage of water is to such an extent that corrosion of reinforcement in the roof slab has taken place, endangering the safety of the structures. It is therefore, proposed to take up hydroinsulation work in the form of APP member over the roofs to arrest seepage of water.

Earlier, in principal approval of BWC has been obtained for the above proposed vide its 30th meeting.

Detailed BOQ & Estimate have been prepared for the above work. The estimate amounts to **Rs.63,50,390.00** (copy enclosed in annexure).

It is proposed to invite open tenders through advertisement in News Papers and NIT website for the above work.

BWC approved the proposal in principle. The budget provision may be made for the proposal so that this can be implanted in FY 2019-20.

[Annexure-A12, Page No. 28]

2. Construction of an out let of Cafe Coffee Day.

There is a demand for construction of an out let of Café Coffee Day. Earlier, in principle approval of BWC has been obtained for the above proposed vide its 29th meeting.

It is proposed to invite open tenders through advertisement in News Papers and NIT website for the above work.

The item was deferred.

E) APPROVAL OF TENDER FOR AWARD OF WORK [PART-'C']: - Nil -

F) DEVIATION, EXTRA ITEMS FOR VARIOUS WORKS & POINTS FOR INFORMATION OF BWC[PART-'D']:

BWC: 31 (2018)-08: PROPOSAL FOR APPROVAL OF DEVIATION AND EXTRA ITEMS FOR VARIOUS WORKS:

1. Extra Items for Construction of Major Projects (Phase-II).

The work order for the above work has issued to M/s Shapoorji Pallonji Co. (P) Ltd. at a value of Rs. 302.82 Crores. During the course of the execution, it has been found necessary to execute some items which are not contained in BOQ. As such, these become extra items. Since most of the items are substitute items, no additional fund is necessary. The extra item statements are given in the annexure.

CIVIL

During the course of execution, it was required to execute some items such as Aerated Autoclaved Fly ash Bricks and Supply and Installation of Fresh color Restroom Cubicles System make for completion of the project which were not envisaged in the original scope of work. Hence these have become extra items. The estimated cost of the same comes to **Rs.47,54,040.00** (copy enclosed in annexure).

ELECTRICAL

During the course of execution, it was required to execute some items such as Sl. No. 11 to 19 for completion of the project which were not envisaged in the original scope of work. Hence these have become extra items. The estimated cost of the same comes to **Rs.33,16,046.00** (copy enclosed in annexure).

BWC approved the proposal and recommended to put up in the next FC meeting.

[Annexure-A13, Page No. 29-32]

**2. Grant of Time Extension for Major Projects (Phase-II).
Agency: - M/s Shapoorji Pallonji Co (P) Ltd.**

The original completion schedule for Construction of Major Projects (Phase-II: Lecture Hall Complex-II, Mechanical Science Building, Faculty Residence (3BHK & 2BHK), Faculty Residence (small) & Golden Jubilee Building) with duration of 24 months was 11.04.2015. Subsequently, 1ST time extension was granted up to 31.12.2016, 2nd Time Extension was given up to 08.02.2018 AND 3rd Time Extension was given up to 31.07.2018 on the request of M/s Shapoorji Pallonji Co. (P) Ltd.



M/s Shapoorji Pallonji Co. (P) Ltd, Vide their letter No. SPCL/1067/NITR/18-19/1123 dated 20th July 2018 (copy enclosed in annexure) again have requested for grant of extension of time further up to **31.12.2018**.

BWC approved the proposal and recommended the same to put up to FC committee.

[Annexure-A14, Page No.33-35]

BWC: 31 (2018)-09: Any other item with the permission of the chair:

1. MHRD vide letter no. 33-1/2018-TS.III(Pt.I) dated 17th July, 2018 and F.No.16-2/2017-TC dated 16th July, 2018 has given broad guidelines for appraisal of infrastructure projects in CFIs and availing finance from Higher Education Funding Agency (HEFA). The details are given in annexure.

BWC noted the proposal.

[Annexure-A15, Page No.36-43]

2. HVAC work

A meeting was convened on 22.07.2018 regarding High End Equipment for Golden Jubilee Buidling, LH –II, Mechanical Science Building in the existing work order awarded M/s SPCL. The minutes of meeting is enclosed in annexure.

- i. The scheme, drawings and technical specifications of equipment pertaining to installation of air conditioning of Auditorium in TIIR building were prepared by Prof. M.P. Maiya, IIT Madras. The same will reach to the Director, NIT Rourkela by the second week of August 2018.
- ii. Execution of high end equipment or setting up the HVAC plant for Golden Jubilee Building, Lecture Hall Complex-II and Mechanical Sciences Building will be treated as Extra item for Phase-II Work order. Existing consultants i.e M/s Inform Architects and M/s Arch and Design, for the project will be contacted for preparation of BOQ and Specifications.
- iii. As the low side work of HVAC in these areas has already been completed by M/s SPCL, it was decided in the meeting to complete the provision of HVAC high end equipment as early as possible. M/s SPCL was asked for its willingness for Supply, Installation, Testing and Commissioning (SITC) as well as one operation of the Plant. .
- iv. The proposed Chiller, Primary pumps, Cooling Tower and other related equipment for Golden Jubilee Building will be at our existing central AC plant which will reduce the construction cost. However a new plant will be set up in between Mechanical Sciences and Lecture

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Hall Complex -II building for catering air-conditioning facilities to Lecture Hall Complex-II and Mechanical Sciences building.

BWC advised to suggest the estimate for Golden Jubilee and Lecture Hall Complex -II & Mechanical Sciences building. The total should be included in the contract of M/s SPCL.

[Annexure-A16, Page No.44-46]

3. Release of security deposit of M/s SPCL.

M/s SPCL has requested to release security deposit of Rs. 20.29 Cr.(Approx) against the submission of Bank Guarantee of equivalent amount as they have completed 95% of the work.

BWC advised to take decision as per the contract agreement between NITR & M/s SPCL.

[Annexure-A17, Page No. 47-48]

4. Modified Preliminary Estimate of Multipurpose Indoor Stadium by M/s CPWD.

M/s CPWD has submitted Modified Preliminary Estimate of Multipurpose Indoor Stadium vide letter no. 23(306)/CE(EZ-V)/CPWD/BBSR/2018/1276 DATED 23.07.2018.

BWC noted the proposal and advised to send a revised proposal to MHRD regarding Sports facility.

[Annexure-A18, Page No. 49-79]


(S. K. Upadhyay)
Registrar & Secretary
Building & Works Committee


(A. Biswas)
Director & Chairman
Building & Works Committee