



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला  
National Institute of Technology, Rourkela

**Minutes for the 19<sup>th</sup> Building & Works Committee, National Institute of Technology, Rourkela to be held at 9.30 AM on 06.09.2013 (Friday) in the Board Room of the Institute.**

**Members Present:**

- |    |  |     |  |
|----|--|-----|--|
| 1. | Prof. Sunil Kr. Sarangi, Director<br>N.I.T., Rourkela.   | ... | Chairman,                              |
| 2. | Sri. Rajesh Singh Solanki<br>Under Secretary, NITs<br>MHRD, New Delhi                                | ... | Representative of Addl. Secy.,<br>MHRD |
| 3. | Prof. R. K. Rahoo,<br>Mechanical Engineering<br>Professor, NIT Rourkela                              | ... | Member                                 |
| 4. | Prof. S. K. Sahu,<br>Dean (PD), Civil Engg., NIT., Rourkela.   | ... | Member                                 |
| 5. | Sri. S. P. Sutar<br>Executive Engineer, PWD<br>Uditnagar, Rourkela                                   | ... | Member                                 |
| 6. | Shri Ajaya Kr. Nayak, DGM<br>Civil Engineering, Town Engineering Department,<br>SAIL, RSP, Rourkela. | ... | Member                                 |
| 7. | Shri Vinod Kr Shrivastava, DGM<br>Refrigeration & Air Conditioning, RSP.,<br>SAIL, RSP, Rourkela.    | ... | Member                                 |
| 8. | Shri S. K. Upadhyay, Registrar, NIT, Rourkela  | ... | Member Secretary                       |

**Invitees Present:**

- |     |   |     |         |
|-----|---|-----|---------|
| 9.  | Prof. Sarat Kr. Das<br>PIC, Civil Construction, NIT Rourkela    | ... | Invitee |
| 10. | Prof. S. Mohanty,<br>PIC ,Electrical Construction, NIT Rourkela | ... | Invitee |
| 11. | Prof. A.K. Panda,<br>VP, Civil Engg., NIT Rourkela.             | ... | Invitee |
| 12. | Prof. A. K. Sahoo<br>VP, Civil Engineering Dept., NIT Rourkela  | ... | Invitee |
| 13. | Prof. Y. K. Sahu,<br>VP, EE Engg, NIT, Rourkela.                | ... | Invitee |
| 14. | Mr. S. P. Mohaptra,<br>EE (Civil), Estate Office, NIT Rourkela. | ... | Invitee |
| 15. | Prof. K. C. Biswal,<br>PIC, Civil Maint., NIT., Rourkela        | ... | Invitee |
| 16. | Mr. M.S.P. Rao,<br>Sr. Engg., Civil ., NIT., Rourkela           | ... | Invitee |
| 17. | Prof. S. Murugan<br>PIC, AC, NIT, Rourkela                      | ... | Invitee |

**Invitees Absent:**

- |     |  |     |         |
|-----|--|-----|---------|
| 18. | Prof. Chitti Babu<br>PIC ,Electrical Maint., NIT Rourkela. | ... | Invitee |
|-----|--|-----|---------|

*Leave of absence was approved for all members absent.*

**A. GENERAL AND PROCEDURAL MATTERS.**

**BWC:19(2013)-01: Welcome to the members by the Chairman.**

*Chairman, Building & Works Committee welcomed all the members.*

**BWC:19(2013)-02: Confirmation of the minutes of the 18<sup>th</sup> Meeting of the BWC held on 17.04.2013.**

The minutes of the 18<sup>th</sup> Meeting were sent to the members vide letter No.NITR/2013/BWC-18/783, Dt. 23.05.2013. No comments were received from the members.

*BWC confirmed the minutes of the 18<sup>th</sup> Meeting of the BWC held on 17.04.2013.*

**BWC:19(2013)-03: To report on the action taken on the decisions made in the 18<sup>th</sup> Meeting of BWC held on 17.04.2013 and to discuss matters arising out of the minutes:**

The report on the action taken on the decisions made in the 18<sup>th</sup> Meeting of the BWC held on 17.04.2013 is presented for BWC's consideration.

*BWC noted the above.*

**[Annexure-A1, Page No.21-22 ]**

**B. REVIEW OF ONGOING PROJECTS:**

**BWC:19(2013)-04: Review of ongoing Civil Projects:**

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

*All the ongoing civil projects were reviewed. BWC expressed concern over the delay in completion of some projects BWC advised the administration to complete the major projects as intimated by the Board.*

**[Annexure-A2, Page No. 23-28 ]**

**BWC:19(2013)-05: Review of ongoing Electrical Projects:**

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

*All the ongoing Electrical projects were reviewed.*

**[Annexure-A3, Page No.29-32 ]**

**C. ADMINISTRATIVE PROPOSAL FOR NEW PROJECTS – PART-‘A’:**

**BWC:19(2013)-06: PROPOSAL FOR NEW PROJECTS:**

**1. Extension of Dining Hall of North & South Guest House:**

During seminars and conference held in the Institute, it is observed that there is tremendous crowd and mix up of guests staying in the guest house, creating confusion. In order to obviate this, it is proposed to provide a separate dining hall adjacent to the existing kitchen. A sketch showing the arrangement is enclosed. This will cost about Rs 25.2 Lakh, brief details of which is given below:

South Guest House

Built-up Area=70sqm @20,000 = Rs 14.0 Lakhs.

North Guest House

Built-up Area=56sqm @20,000 = Rs 11.20 Lakhs.

Total = Rs. 25.2 Lakhs.

*The BWC approved the proposal and directed Dean (PD) that review of the drawing and finalization of the scheme may be done at the earliest.*

**[Annexure-A4, Page No. 33-36 ]**

**2. (a) Renovation of the Community Hall in the Campus:**

It is necessary to construct a kitchen and provide covered space in the front portion of the Community Hall for smooth functioning of the social gatherings. A sketch showing the arrangement is enclosed. This will cost about Rs 20.0 Lakhs (Built-up Area=135 sqm@15,000=Rs 20.00 Lakhs). BWC defined the proposal to its next meeting.

*The BWC approved the proposal in principle and directed Dean (PD) to submit a comprehensive plan for renovation of the Community Hall. The proposal was deferred to the next meeting.*

**[Annexure-A5, Page No.37-39 ]**

**(b) Provision of a Department Store in the Campus:**

With the tremendous increase in the student and staff population, it is necessary to have a Department Store in the campus wherein provision of grocery items, vegetables, bakery etc should be available. This may be located near the community Hall. It is proposed to construct a two storied building for the same having total floor area of 3150 sqm. It will cost about Rs47.25 Lakh (3150x15, 000).

*The BWC approved the proposal in principle and directed Dean (PD) to submit a comprehensive plan for renovation of the Community Hall including departmental store by a large national chain. Till that time, the departmental store will operate in the existing Community Hall.*

**[Annexure-A6, Page No.39-41 ]**

### 3. Development Works around AC Plant Building and Computer Science Building:

The AC Plant Building under construction was getting ready. It was therefore necessary to provide some development works such as paving tiles, grass Crete, one RCC sump for storing water etc adjacent to the building. A sketch showing the arrangement is enclosed. This would cost about Rs 40.00 Lakhs. Details are enclosed.

*The BWC approved the proposal.*

#### Estimate for Development work around AC Plant Building & CS Building

1. Interlocking tile	=1200.00 sqm @976=24/ sqm.	Rs.11,71,488.00
2. Tile fixing 22mm thin Ultra/Spetra	=700.00 sqm @ 871=18/sqm	Rs. 6,09,826.00
3. R.C.C Tank	= 1 No @ 8,00,000.00/each	Rs.8,00,000.00
4. Grass Create	= 700.00 @ 707=76/sqm.	Rs.4,95,432.00
5. Cement Concrete 1:4:8	= 200.00 @3077.31/cum	Rs.615,462.00
6. Cement Concrete 1:2:4	= 3.00 @3970=04/cum	Rs.11910.12
7. Sand Filling	=385.00 @ 273.14/ cum	Rs.1,05,158.90
8. MISC. Work (Brick work, Earth work, Grill, Plastering Transporting etc.)		Rs. 1,90,380.00
		<hr/>
	Say	Rs.40.00 Lakh.

*The BWC approved the proposal.*

**[Annexure-A7, Page No.42-44]**

### 4. Provision of Exhibition Hall in the AC Plant Building:

It was proposed to use the First Floor of the AC Plant Building as an Exhibition Hall for display of posters etc by students. It was therefore required to provide VC tiles flooring in this floor & suitable toilet facilities etc. Further, in order to cater to the needs of the crowd, another staircase is to be constructed. A sketch showing the arrangement is enclosed. This would cost about Rs 37.00 Lakhs. Brief details are given below:

VC Tile in the Exhibition Hall	=	Rs. 18.00 Lakhs.
Ultra Tile in the Staircase	=	Rs. 5.00 Lakhs.
Staircase (Southside)	=	Rs. 7.00 Lakhs.
SS Railing in Stair	=	Rs. 7.00 Lakhs.
	<hr/>	
Total	=	Rs. 37.00 Lakhs.

*The BWC approved the proposal.*

**[Annexure-A8, Page No.45-46 ]**

## **5. Appointment of Consultant for Central Air Conditioning (Phase III and IV)**

Earlier, M/s Kukreja Associates, New Delhi were appointed as Consultant for Central Air Conditioning for Phase III&IV Vide Work Order No- ITR/PW/WO/CT/180/10-11/214 dated 10-11-2010. Their scope of work includes the following Buildings:

### **Phase- III**

1. Eastern part of main administrative Building (3 storied, existing)
2. Chemical Engg. Building (4 storeyed, existing & extension portion)
3. Mining Engg. Building (3 storeyed, existing & extension portion)
4. Ceramic Engg. Building (3 storeyed, existing & extension portion)
5. High Voltage Lab (2 storeyed, existing & extension portion)
6. Electrical Sc. Building (4 storeyed, existing-newly constructed)
7. Lecture Hall No: I (4 storeyed, existing- newly constructed)
8. TIIR Building (4 storeyed, under construction)

### **Phase -IV**

1. Mechanical Sc. Building (4 storeyed, construction in progress)
2. Golden Jubilee building (13 storeyed, construction in progress)
3. Lecture Hall No: II (3 storeyed, construction in progress)

However, inspite of repeated requests to them through numerous letters and telephonic calls, they have not taken any action for preparation of BOQ, specification and drawings for the same notwithstanding , considerable time has elapsed since issue of work order. Necessary 14days notice has been issued to them recently.

There is urgency in providing air conditioning of the buildings which are already completed and in operation. Considering this, it is proposed to terminate the contract of M/s Kukreja Associates, New Delhi and appoint another Consultant through open advertisement in News papers, following normal procedure for selection of Consultants.

*The BWC decided not to appoint any consultant for Phase III and Phase IV. It was decided that the project will be awarded on turn key basis to a vendor of repute after first inviting expression of interest, fixing the detailed specifications, and finally going through a formal tendering process.*

**[Annexure-A9, Page No.47]**

## **7. Additional Works Related to Booster Pump House.**

Originally, it was envisaged to lay 2 pair of HVAC pipes behind Mechanical Science Building. Now as advised by the consultant M/s Design Services, Kolkata, it is required to provide one more pair of pipes for supplying chilled water to Electrical Science Building and Golden Jubilee Building etc for which additional trenches and support structures etc are to be provided. Further, some road crossing are also to be done for which culverts are to be provided. This will cost about Rs 30.00 Lakhs.

*The BWC approved the proposal.*

**[Annexure-A10, Page No.48-49]**

## **D. APPROVAL OF BOQ AND ESTIMATE FOR TENDERING NEW PROJECT- [PART-'B']:**

**BWC:19(2013)-07: PROPOSAL FOR APPROVAL OF BOQ AND ESTIMATE FOR TENDERING FOR NEW PROJECT :**

### **1. Provision of ceramic tile flooring for 'G' type Quarters**

Earlier, BWC had accorded approval for Provision of ceramic tile flooring in 'G' type Quarters.

Detailed BOQ, specification and estimate have been prepared which are enclosed.

#### **1.1 Technical details:**

Estimated cost: Rs. 94.24 Lakhs

#### **1.2 Technical Specification:**

- Ceramic Tile Flooring
- Dismantling of Concrete
- Dismantling of old plaster and skirting
- Providing Cement Concrete
- Antitermite treatment

*The BWC approved the proposal but decided that 24 nos. of G-Type Quarter/F-Type Quarter near the pump house will be excluded from tile flooring as the space is earmarked for construction of Faculty Residences in future.*

**[Annexure-A11, Page No.50-53]**

**2. Provision of Interlocking tile in the Parking area between Computer Science Building & Lecture Gallery and area adjacent to AV Hall, and paving of berms on Road from SAC Building to Mining Building.**

BWC and BOG had earlier approved the proposal/Detailed BOQ/ Specification and Estimates have been prepared which are enclosed. The estimate amount to Rs.15.00 Lakhs.

*The BWC approved the proposal.*

**[Annexure-A12, Page No.54-57 ]**

**3. Construction of New Dining Hall for KMS Hall.**

The strength of occupants in this hostel is likely to be increased to 700 after extension & renovation of the present KMS Hall Building. It is therefore necessary to have a common Dining Hall to cater to this population. The drawing, specifications and BOQ have been prepared by M/s Design Techno, Bhubaneswar. The abstract of this estimate is enclosed. The estimate amounts to

Rs.3.16 Crore + 15 % for Electrical=Rs.3.63 Crore

*The BWC approved the proposal and directed to include the electrical item also. The order should be given to single vendor, which would include both Civil and electrical.*

**[Annexure-A13, Page No. 58-61]**

**E. APPROVAL OF TENDER FOR AWARD OF WORK [ PART-'C' ]:**

***BWC:19(2013)-08:* REPORT ON AWARD OF WORKS TO CONTRACTORS**

**1. Construction of Security Watch tower**

In response to our tender Notice No CT-10/2013-14 for the above job, only two following firms submitted their tender on 2<sup>nd</sup> JULY 2013.

1- M/s S.K.Mohanty

2- M/s P.C.Mohanty

For better competition, the committee decided to extend the date of submission of tender to 16<sup>th</sup> JULY 2013.

The committee met on 16<sup>th</sup> July and found that, inspite of extension, no other agency responded. Hence committee decided to open tender of the two firms

submitted earlier. After finding that both the firms have submitted EMD, Price bids were opened. M/s S.K.Mohanty was L-1 quoting (5.67%) lower than the estimate.

The tender committee recommended to award the work to M/S S.K.Mohanty at a price of Rs.21,76,771.50 which is (5.67%) below the estimated price of Rs. 23,07,613.18.

*The BWC approved the proposal.*

**[Annexure-A14, Page No.62]**

## **2. Construction of Drain cum Pathway by the side of Golden Jubilee Building**

In response to tender notice for the above work following four firms applied in three parts.

1. M/s Eastern Infrastructure Pvt. Ltd.
2. M/s S.K. Mohanthy.
3. M/s Nanda Kishore Das.
4. M/s Indian Projects Associates

The member of the committee at first opened the envelopes containing EMD and Tender Cost of all the firms and checked that all the firms have submitted required EMD and tender cost.

Then it was decided to open the envelopes containing techno commercial bids and check the eligibility of the above firms

### **Members Present**

Following four firms responded to the tender for above work.

1. M/s Eastern Infrastructure Pvt. Ltd.
2. M/s S.K. Mohanthy.
3. M/s Nanda Kishore Das.
4. M/s Indian Projects Associates.

Based on the document submitted by the firms, it is observed that all the firms qualify for the above job. Out of four firms; M/s Indian Projects Associates currently are engaged in the following jobs in NIT.

- a) Civil works related to centralized Air conditioning.
- b) Renovation of 'B' type quarters.
- c) Addition, alteration & renovation of F3 & C25 quarters.
- d) False Ceiling in Academic area.
- e) 5 MLD Water Treatment Plant as a subcontract job of M/s Porel Dass.

The committee members felt that the firm M/s Indian Projects Associates is heavily loaded resulting slower progress at various job fronts. The committee felt to dabar him for this job and returns his EMD.

The price bids were opened after getting approval from the Director.

The tender committee pertaining the above job met on 23.07.13

The price bids of following firms ware opened.

- 1) M/s S.K.Mohanty
- 2) M/s Eastern India Infrastructures
- 3) M/s Nandakishor Das.

It is observed that M/s S.K. Mohanty is L1 quoting 13% lower than the estimate (C.S. is attached).

The tender committee decided to award the work to M/s S.K.Mohanty at a price of Rs.39, 17,744.84 which is (13%) below the estimated price of Rs.45, 03,154.99.

*The BWC approved the proposal.*

**[Annexure-A15, Page No.63-64]**

### **3. Construction of Dormitory for Female Mess and Security Staff.**

In response to the Tender invited from NIT Registered Civil Contractors of 'B' & 'A' category, offers from the following six firms have been received in 2 parts (i.e EMD, & Price bid).

- i) M/s Bijaya Construction.
- ii) M/s A.K.Mohanty
- iii) M/s S.K.Mohanty
- iv) M/s Rourkela Fabrication
- v) M/s Eastern Infrastructure
- vi) M/s P.C.Mohanty

The members of the committee first opened the envelopes containing EMD and found that all the above mentioned firms have submitted required amount of EMD.

The members of the Committee decided to open price bids of all the six firms.

After opening the price bids, the committee found M/s S.K.Mohanty has become L1 at 13.00% below the estimated price.

Considering the above, the tender committee recommended to award the work to M/s S.K Mohanty at a total price of Rs 15, 35.589.38(i.e. 13.00% below the estimated price).

*The BWC approved the proposal.*

**[Annexure-A16, Page No.65 ]**

#### **4. Construction of Water bodies behind VS Hall and deepening of Puspa Pond.**

In response to the advertisement in Newspapers and NIT website, the following four firms have submitted their offers in three parts (1<sup>st</sup> part: EMD & Tender cost, 2nd part: Techno Commercial bids including prequalified requirement and 3<sup>rd</sup> part: price bid).

1. M/s T. Santosh Kumar Patra, Rourkela.
2. M/s USS Construction, Rourkela.
3. M/s Jitendra Prasad, Rourkela.
4. M/s Triveni Civil Tech(P) Ltd, Bhubaneswar.

The members of the committee first opened the envelopes containing EMD and found that all the above mentioned firms have submitted required amount of EMD.

It was decided to prepare a technical comparative statement indicating their organization, turn over during last 3 years, experience etc. of the above mentioned firms.

The members of the Committee went through the Comparative Statement (Technical) indicating their annual turnover, experience etc and other document submitted by the above mentioned firms.

The Committee members found that all the four firms are technically qualified for the work.

Then the members of the Committee opened the price bids of the above mentioned firms and found that the tender position is as given below:

<b><u>Name</u></b>	<b><u>Quoted Percentage</u></b>	<b><u>Tender Position</u></b>
i) M/s T.Santosh Kumar Patra.	(-)17%	L3
ii) M/s USS Construction.	(-)21.3%	L1
iii) M/s Jitendra Prasad.	(-)18.1%	L2
iv) M/s Triveni Civil Tech (P) Ltd.	(-)11.33%	L4

The Committee decided to divide the work amongst 2 firms in view of urgency of the work and as per stipulation in the Tender notice in the ratio of 60:40.

The representative of the L1 tender (i.e. M/s USS Construction) was asked about his resources available with them for the above mentioned work. He replied that they are having ready mobilization of equipments and other resources and agreed to give an undertaking for the same (Copy enclosed).

Then the representative of the L2 tender (i.e. M/s Jitendra Prasad) was called and was requested to match their rate with L1 tender to which he agreed. Copy of their consent letter and undertaking are enclosed.

Considering the above, the members of the Tender Committee recommended to award the above mentioned work to M/s USS Construction (L1 Tenderer) and M/s Jitendra Prasad (L2 Tenderer) at a price of 21.3% below & the estimated price at a value of Rs. 17301848.20 and Rs. 11534565.47 respectively.

*The BWC approved the proposal.*

**[Annexure-A17, Page No.66-67 ]**

#### **5. Construction of Common Parking Space Stage-I for Residents in NIT.**

In response to the Tender invited from NIT Registered Civil Contractors of 'B' & 'A' category, offers from the following eight firms have been received in 2 parts (i.e. EMD, & Price bid).

- i) M/s Bijaya Construction.
- ii) M/s Parbati Engineers
- iii) M/s A.K.Mohanty
- iv) M/s S.K.Mohanty
- v) M/s Rourkela Fabrication
- vi) M/s Indian Projects
- vii) M/s Eastern Infrastructure
- viii) M/s P.C.Mohanty

The members of the committee first opened the envelopes containing EMD and found that all the above mentioned firms have submitted required amount of EMD.

The members of the Committee decided to open price bids of all the eight firms.

After opening the price bids, the committee found M/s P.C.Mohanty has become L1 at 11.99% below the estimated price.

Considering the above, the tender committee recommended to award the work to M/s P.C.Mohanty at a total price of Rs 18, 45,719.92 (i.e. 11.99% below the estimated price).

*The BWC approved the proposal.*

**[Annexure-A18, Page No. 68 ]**

## **6. Appointment of Architects for Master Plan and Major Projects (Phase-III) (Civil, Electrical & HVAC).**

In response to the advertisement in Newspapers and NIT web site, the following twelve firms have submitted their offers:

- i) M/s Vastukar Architects, Bhubaneswar.
- ii) M/s Jay Ambe Ground, Ahmedabad.
- iii) M/s Arch-en Design, Lucknow (UP).
- iv) M/s S. Kumar & Associates, NewDelhi.
- v) M/s EDMAC Engineering, NewDelhi.
- vi) ENARCH Consultants (pvt.) Ltd., Noida (UP).
- vii) M/s Supreme Engineers Constructions (India) pvt Ltd., Mumbai.
- viii) M/s Suresh Goel & Associates, New Delhi.
- ix) M/s Development Architects Pvt Ltd., Kolkata.
- x) M/s S.M. Consultants, Bhubaneswar.
- xi) M/s DDF Consultants Pvt Ltd, NewDelhi.
- xii) M/s Mukesh Associates, Salem.

The members of the Committee opened the techno commercial bids of the above mentioned firms and felt to prepare a Technical comparative statement indicating their experience, turnover during last 3 years etc.

The members of the committee went through the Technical comparative statement for the firms indicating experience, turnover during last 3 years etc. of the firms as mentioned above.

The committee found some information wanting in respect of the following firms to satisfy eligibility criteria.

- i) M/s Jay Ambe Ground Designers Pvt. Ltd, Ahmedabad.
- ii) M/s EDMAC Engineering Consultant (I) Pvt Ltd., Newdelhi.

It was decided to write to the above firms to submit additional information/clarification pertaining to the above work by 08-05-2014.

M/s Jay Ambe Ground Designers Pvt Ltd, Ahmedabad informed with documents that they have completed buildings of more than six storeyed (i.e. one of the eligibility criteria).

M/s EDMAC Engineering Consultants (I) Pvt Ltd telephonically informed that they have done small Master Plans but not the size indicated in the Tender Notice.

With the additional information as stated above, the Technical Comparative Statement has been updated.

The members of the Committee went through the updated Technical Comparative Statement and observed that the following firms are not satisfying the eligibility criteria as stated in the Tender Notice and hence not technically qualified for the work.

- i) M/s Vastukar Architects.
- ii) M/s S. Kumar & Associates.
- iii) M/s EDMAC Engineering Consultant (India) Pvt.Ltd.
- iv) M/s Supreme Engineers Constructions (India) pvt Ltd.
- v) M/s S.M. Consultants.

The members of the committee observed that the following firms are satisfying all the eligibility criteria as indicated in the Tender Notice and hence technically qualified for the work:

- i) M/s Jay Ambe Ground Desigrees Pvt Ltd.
- ii) M/s Arch-en Design.
- iii) ENARCH Consultants (pvt.) Ltd.
- iv) M/s Suresh Goel & Associates.
- v) M/s Development Architects Pvt Ltd.
- vi) M/s DDF Consultants Pvt Ltd.
- vii) M/s Mukesh Associates.

The members of the Committee recommended that all the technically qualified firms as mentioned above may be informed to give a presentation of the works executed by them on a suitable date shortly. The final selection will be done based on quality and cost after the presentation.

In response to the advertisement in newspapers and NIT website, in total twelve nos Architectural firms had applied for the above work (Details enclosed). After preliminary scrutiny, the internal Committee members selected seven firms who were informed to give a presentation at Rourkela on the conceptual plan/details of the proposed buildings along with similar works executed by their firms on 10-06-2013.

In response to the above, representative of the following Architectural firms reported at Rourkela and gave their presentation separately on 10-06-2013 in the presence of the committee members and the Director:

- i) M/s Arch-en Design
- ii) ENARCH Consultants (pvt.) Ltd.
- iii) M/s Development Architects Pvt Ltd.
- iv) M/s Mukesh Associates

The other three firms did not turn up for presentation.

Before the presentation by architectural firms stated above, NIT appraised all the members and the firms that the evaluation of the Tender will be based on quality and cost with weight age factor 0.7 and 0.3 respectively as per the guidelines of Government of India for selection of consultants. The qualifying mark for opening of the price bid has been fixed as 50 out of 100 for quality.

<u>Details</u>	<u>Mix Marks</u>
i) Experience	20
ii) Quality of drawing	20
iii) Performance	10
iv) Presentation	50

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Total = 100

At the outset, all the expert members of the committee went through the Comparative Statement (Technical) prepared for the entire 12 nos Architectural firms including documents submitted by them regarding their experience, volume of business done during last 3 years etc. They ratified the short listing of seven firms as recommended by the internal committee and found others not suitable.

The members of the Committee deliberated on the presentation made by the architectural firms stated above and scrutinized the documents submitted by them and performance reports received from clients. The committee found the following firms qualified for the above based on quality of work:

- i) M/s Arch-en Design
- ii) ENARCH Consultants (pvt.) Ltd.
- iii) M/s Development Architects Pvt Ltd.
- iv) M/s Mukesh Associates

Before opening of the price bids, all the representatives of the Architectural firms were informed about the marks secured by their firms in respect of quality.

Then the price bids were opened and the marks were evaluated towards price and then the total marks calculated taking into consideration, weightage factors.

It is observed that M/s Development Architects Pvt Ltd have become H1 at a price of 0.94% (Zero point nine four percent) of the project cost.

The members of the committee recommended to award the work of Architectural Consultancy Services for Major Projects (Phase-III) to M/s Development Architects Pvt Ltd at a value of 0.94% (Zero point nine four

percent) of the project cost. For master plan, the same percentage will be applicable over the project cost of road, drain external electrification works and other infrastructure works.

*The BWC approved the proposal.*

**[Annexure-A19, Page No.69-73]**

#### **7. Water Supply and Periphery Development of 0.18 MLD STP and fixing of Jalli for G D Birla and Dhirubhai Ambani Hall.**

In response to the Tender invited from NIT Registered Civil Contractors 'C' & 'B' category, offers from the following four firms have been received in 2 parts (i.e. EMD & Price bid).

- i). M/s. Bijay Construction
- ii) M/s. A. K. Mohanty
- iii). M/s. Eastern Infrastructures Private Limited
- iv). M/s. Sri Sudarshan Dash

The members of the Committee first opened the envelopes of EMD and found that all the above mentioned firms have submitted the required amount of EMD.

The members of the Committee then opened the envelopes containing the techno Commercial bids and found that the above mentioned Firms are qualified for the work.

Then the members of the Committee opened price bids and the tender position is as indicated below:

<u>SI No</u>	<u>Name of Firms</u>	<u>Quoted Price</u>	<u>Status</u>
1.	M/s. Bijay Construction	(+) 7.25 %	L-2
2.	M/s. A. K. Mohanty	(+) 10.00 %	L-4
3.	M/s. Eastern Infrastructures Pvt. Ltd	(+) 9.50 %	L-3
4.	M/s. Sri Sudarshan Dash	(+) 7.00 %	L-1

Then the committee called the representative of the L-1 tenderer (i.e . M/s. Sri Sudarshan Dash) and requested to lower his rates. After prolonged discussion, he agreed to lower his rates to 5 % above the estimated rates.

The tender Committee recommended awarding the work to M/s. Sri Sudarshan Dash at 5% above the estimated rates (i.e. **Rs.14, 60,027.30**).

*The BWC approved the proposal.*

**[Annexure- A20, Page No. 74]**

**8. Appointment of Consultant for assisting in obtaining GRIHA Certification.**

In response to the advertisement in News Papers and NIT website, offers have been obtained from the following firms in two parts (i.e. Techno Commercial and Price bids):

- i) Architecture & Research kinetics, Kolkata.
- ii) Green Tree Building (p) Ltd. Ghaziabad (NCR), UP
- iii) Interia, Hyderabad.
- iv) Lead Consultancy & Engineering services (India) pvt. Ltd, Bangalore.
- v) Green horizon consultancy (P) Ltd, Gurgaon.
- vi) SGS India (P) Ltd, Gurgaon.
- vii) Conserve Consultants pvt, Chennai.
- viii) Godrej & Boyce Mpg. Co. Ltd, Mumbai.

A comparative Statement (Technical) has been prepared indicating their experience; financial turn over during last three years etc. The price bids will be opened after prequalification of the firms.

*The BWC approved the proposal.*

**[Annexure-A21, Page No. 75 ]**

**9. Appointment of Consultant for assisting in getting Environmental Clearance for Undertaking Construction of Major Project (phase-II) Buildings.**

The BWC had earlier approved the proposal for appointment of Consultant for the above work.

In view of urgency in construction of Major Project (Phase II) Buildings, the order of which has already been placed on M/s Shapoorji Pallonji & Co Ltd, after obtaining spot quotations, the order has been placed on Environmental Consultant, Dr B.K. Patra, Centre for Envotech & Management Consultancy , Bhubaneswar at a fee of Rs 6.0 Lakhs.

*The BWC approved the proposal.*

**[Annexure-A22, Page No.76-77 ]**

**F. DEVIATION AND EXTRA ITEMS FOR VARIOUS WORKS [PART-'D']:**

**BWC: 19(2013)-09:Proposal for approval of Deviation and extra items for various works:**

**1. Extra Item for Construction of Major Project (Phase I) (Agency: Uttar Pradesh Rajkiya Nirman Nigam Ltd)**

The extra item statement for construction of Major Project (Phase I) is given in the Annexure. The work order for above work has been placed on M/s Uttar Pradesh Rajkiya Nirman Nigam Ltd vide work order No-NITR/PW/WO/CT/288/07-08/349/2873 Dated 19.03.2008 . During the course of execution, some items which are not included in the BOQ (i.e. Extra Item) are required to be executed as per site requirement. The extra items with justification are given in enclosure.

*The BWC approved the proposal.*

**[Annexure-A23, Page No.78-80]**

**2. Extra Item for Extension of Chemical Engineering Department Building (Agency: M/s Siba Prasad Padhi)**

The extra item statement for extension of Chemical Engineering Department Building is given in the Annexure. The work order for above work has been placed on M/s Siba Prasad Padhi, Burla vide work order No-NITR/PW/WO/CT/66/10-11/70 Dated 1.06.2010. During the course of execution, some items which are not included in the BOQ (i.e. Extra Item) are required to be executed as per site requirement. The extra items with justification are given in the enclosure.

*The BWC approved the proposal.*

**[Annexure-A24, Page No.81-85]**

**3. Modification in the Plan for Faculty residences (Phase II)**

The above work has been awarded to M/s Shapoorji Palling & Co Ltd at a value of Rs. 302.82 crore vide work order No NITR/PW/WO/CT/66/12-13/68 Dated 22.02.2013. The work is under progress. In their scope of work, four Blocks of Faculty Residences (4 storeyed Construction), (total 64 units), each unit of plinth area of 180 sqm are to be constructed.

In the mean time, it observed that there has been great demand for additional faculty residences in view of large intake of faculty members. Therefore, it is felt necessary to increase the number of units and reducing the plinth area to about 122 sqm for one block of 72 units ( 2 BHK + study) and another block of 48 units ( 3 BHK + study with each plinth area= 158 Sqm) (Total 120

Units). This will be seven storeyed construction with parking in the stilt portion and provision of lift. On our request, the concerned Architect (M/s Arch-en Design, Lucknow) has provided necessary drawing and design for the same. A copy of the plan is enclosed. As per the plan, there will be 12 units in each floor. So for one Block, there will be 72 units. A brief calculation for the deviation in the contract is given below:

**As per Original Scheme** (Awarded to M/s Shapoorji Palling & Co Ltd)

Cost for Faculty Residence - Rs. 31.09 crore

Cost for Faculty Residence Car Parking- Rs. 03.26 crore

Total = Rs.34.35 crore+4.93% (Quoted Price)  
= Rs. 36.04crore for 64 units.

Cost per unit = Rs 56.32 Lakh for plinth area of 180 sqm.

Cost/ sqm = Rs. 31,238/sqm

**As per New Proposal**

Unit Area = 122 sqm

Cost per unit = 122 X 31,238 =Rs. 38.11 Lakhs

Cost for One Block = 12X6X38.11 = Rs. 27.44 crore

Cost for Another 8 Block = 158X31,238X8X6 = Rs. 23.69 crore

Total = 51.13 Crores

So Additional fund required Rs. 51.13 - Rs.36.04 = Rs15.09 crores

Percentage Deviation =15.09/302.82 X 100 = 4.98%

In the contract

*The BWC approved the proposal.*

**[Annexure-A25, Page No.86-88]**

**4. Extra Items & Deviation for Central Air Conditioning System (Phase:II) of Various Academic Buildings**

Centralised AC System (Phase:II) work for various academic buildings has been awarded to M/s Blue star Ltd at a contract value of Rs.10.68 Crores on 01/03/2011. The work is under progress. It is observed that in some academic buildings due to low ceiling height, installation of FCUs and conventional rectangular ducting with false ceiling below the existing ceiling is not feasible. Hence, in such area it is proposed to provide spiral ducting in place of conventional ducting and cassette units in place of FCUs. For aesthetic reasons, it is felt to provide aluminium cladding on chilled water piping in corridor areas. The electrical panel requires some additional cabling and some switch gears for integrating the operation of Main Plant Room and

Booster Pump Room. Above items were originally not envisaged in the tender specifications. For completeness and smooth operation of the centralised AC system, it is proposed to execute the above works.

A Committee has been constituted including the Consultant (M/s Design Services, Kolkata) to negotiate and settle the rates.

The minutes of the meetings are enclosed herewith. As per the recommendation of the Committee, the extra items and deviation amounts to Rs:1.63 Crore (15.3 percent of the contract value) as follows.

1.	Electrical Work (Extra Items & Deviation: 20,76,200)	:	Rs19,15,656.21
		:	Rs 39,91,856.21
2.	Spiral Ducting & Grilles	:	Rs 94,80,018.26
3.	Aluminium Cladding of Pipes in Corridor area	:	Rs 21,00,735.80
4.	Chilled Water Cassette	:	Rs 6,84,064.27
			-----
			Rs 1.62.56, 674.54
			-----
			Say Rs. 1.63 Crore.

*The BWC approved the proposal.*

**[Annexure-A26, Page No.89-91]**

**BWC:19(2013)-10: Deviation and Extra items for 33 KV OH direct line from OPTCL, Chhend 132/33 KV Grid to NIT, Rourkela.**

The details of deviation and Extra items for 33 KV OH direct line from OPTCL, Chhend 132/33 KV Grid to NIT, Rourkela is enclosed in the Annexure.

*The BWC approved the proposal.*

**[Annexure-A27, Page No.92-106]**

**BWC:19(2013)-11: Extra item for 33 KV Ring Main and 33 KV/0.433 KV Substation.**

Work Order no. NITR/PW/WO/ET/154/10-11/183 dt.19.10.10 was placed on M/s Blue star ltd, Kolkata for a value of Rs. 7,39,58,938.00 for supply and installation of 33 KV receiving substation, 33 KV Ring main system party with OH Line and party with cables and 8 nos. 33KV/0.433 KV substation in NIT campus.

**A. EXTRA ITEMS**

The following extra items as per list were needed to complete the above project amounting to Rs. 9,78,435.00.

- i) Straight through joint 33 KV cable- 2 nos.
- ii) HT terminal box for indoor 750 KVA transformers – 2 nos.
- iii) Civil work as per list for MRSS Control Room for housing Control and relay panel and Meter panel and Battery.

*The BWC approved the proposal.*

**[Annexure-A28, Page No.107-111]**

**BWC:19(2013)-12: Any other item with the permission of the Chair.**

**1. Deviation in the Construction of TIIR Building.**

Originally, as per drawings submitted by the Consultant, M/s Mukesh Associates, Salem, there was provision of parking of cars and other vehicles outside the Building. While taking up the construction of the above building, it is observed that there is steep gradient in the terrain due to which parking facility can be provided in the rear side of the building by introducing a lower basement floor. This will also create additional floor space in the Building. The matter was referred to the Consultant who have prepared details drawings and revised estimate for the same. The estimate amounts to Rs. 32.23 crores (copy enclosed). The original project cost was Rs.26.68 crores and as such, there will be a deviation Rs. 5.55 crores (i.e. Deviation of 20%).

*The BWC approved the proposal.*

**[Annexure-A29, Page No.112-113]**

**2. Empanelment of Contractors (Civil/Electrical).**

The details of Empanelment of Contractors (Civil/Electrical) of NIT, Rourkela are enclosed in the Annexure.

*The BWC approved the proposal.*

**[Annexure-A30, Page No. 114-115 ]**

**3. Extra item for Rewriting/Renovation of 19 nos. A type houses.**

The details of Rewriting/Renovation of 19 nos. of A type houses of NIT, Rourkela are enclosed in the Annexure. The value of additional work amounts to Rs.3,81,000.00 i.e 34% of the work order value.

*The BWC approved the proposal.*

**[Annexure-A31, Page No. 116]**

**4. Extra item and Deviation in Rewriting/Renovation of School Building.**

The details of deviation in Rewriting/Renovation of School Building are enclosed in the Annexure. The value of additional work amounts to Rs.3,03,500 i.e 37% of the wok order value. The BWC approved the proposal.

*The meeting ended with thanks to the Chair.*

**[Annexure-A32, Page No.117-123 ]**

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

**(S. K. Sarangi)**  
Director & Chairman  
Building & Works Committee