



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला  
National Institute of Technology, Rourkela

**Minutes of the 15<sup>th</sup> Building & Works Committee, National Institute of Technology, Rourkela held at 09.00AM on 17.02.2012 (Saturday) in the Board Room of the Institute.**

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**Members Present:**

- |    |  |     |           |
|----|--|-----|-----------|
| 1. | Prof. Sunil Kr. Sarangi, Director<br>N.I.T., Rourkela.   | ... | Chairman, |
| 2. | Shri R.S. Solanki<br>Unde Secretary , NITs(TS-III), New Delhi                                    | ... | Member    |
| 3. | Shri Vinod Kr Shrivastava, DGM<br>Refrigeration & Air Conditioning, RSP.,<br>SAIL, RSP, Rourkela | ... | Member    |
| 4. | Prof. B. B. Biswal,<br>Professor, NIT Rourkela   | ... | Member    |
| 5. | Prof. S. K. Sahoo,<br>Dean(PD), Civil Engg., NIT., Rourkela.                                     | ... | Member    |
| 6. | Shri S. K. Upadhyay, Registrar, NIT, Rourkela  | ... | Secretary |

**Invitees Present:**

- |     |   |     |         |
|-----|---|-----|---------|
| 7.  | Prof. Sarat Kr. Das<br>PIC, Civil Construction, NIT Rourkela    | ... | Invitee |
| 8.  | Prof. K. C. Biswal,<br>PIC, Civil Maint., NIT., Rourkela        | ... | Invitee |
| 9.  | Prof. A.K. Panda,<br>VP, Civil Engg., NIT Rourkela.             | ... | Invitee |
| 10. | Prof. A. K. Sahoo<br>VP, Civil Engineering Dept., NIT Rourkela  | ... | Invitee |
| 11. | Mr. S. P. Mohaptra,<br>EE (Civil), Estate Office, NIT Rourkela. | ... | Invitee |
| 12. | Er. R.C. Mishra<br>Superintending Engineer, CPWD, Bhubaneswar   | ... | Member  |
| 13. | Er. Kamal Pradhan<br>Executive Engineer, CPWD, Bhubaneswar.     | ... | Member  |

**Members & Invitees Absent:**

- |     |  |     |         |
|-----|--|-----|---------|
| 14. | Shri Ajaya Kr. Nayak, DGM<br>Civil Engineering, Town Engineering Department,<br>SAIL, RSP, Rourkela. | ... | Member  |
| 15. | Prof. Chitti Babu<br>PIC ,Electrical Maint., NIT Rourkela.   | ... | Invitee |
| 16. | Shri U. Mishra<br>Executive Engineer, PWD, Rourkela  | ... | Invite  |

Leave of absence was approved for all members absent.

**BWC:15(2012)- 01: Welcome to the members by the Chairman.**

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

**BWC:15 (2012)-02: Confirmation of the minutes of the 14<sup>th</sup> Meeting of the BWC held on 02.07.2011.**

The minutes of the 14<sup>th</sup> Meeting were sent to the members vide letter No.NITR/2010/BWC-14/351, Dt.30.08.2011. No comments were received from the members.

*BWC confirmed minutes of the 14<sup>th</sup> Meeting of the BWC held on 02.07.2011.*

**BWC:15(2012)-03: To report on the action taken on the decisions made in the 14<sup>th</sup> Meeting of BWC held on 02.07.2011 and to discuss matters arising out of the minutes:**

The report on the action taken on the decisions made in the 14<sup>th</sup> Meeting BWC held on 02.07.2011 was presented for BWC's consideration.

*BWC noted the above*

**(Annexure-A1, Page No. 21 )**

**BWC:15(2012)-04: Review of ongoing Civil Projects:**

*A report on the progress of ongoing Civil Projects was presented and BWC noted the above.*

**(Annexure-A2, Page No.22 - 25)**

**BWC:14(2011)-05: Review of ongoing Electrical Projects:**

*A report on the progress of ongoing Electrical Projects was presented and BWC noted the above.*

**(Annexure-A3, Page No. 26 - 28)**

**BWC:15(2012)-06: Proposal for New Projects.**

**1) Approval for Extension of Homi Bhabha Hall of Residence.**

In order to increase the capacity of the Hostel to about 600 from existing 400 capacity, it is necessary to take up additional construction work as an extension to the existing building. M/s Bose Brothers Architects who were the original Architects of the buildings, will prepare necessary drawings and BOQ for the same. The architects have promised to do this work without additional fee. A decorative beam which was a part of the original construction and collapsed in storm will be reconstructed, if a suitable design can be generated. **The total construction cost may come to Rs.10 crore.**

*BWC approved the proposal.*

**2) Approval for Kitchen extension to VS Hall of Residence.**

The kitchen under construction is found to be inadequate for 1000 students. It is necessary to take up extension to the kitchen for which detailed drawing and BOQ will be prepared as per site conditions. **It will cost about Rs.50 lakhs.**

*BWC approved the proposal.*

**3) Appointment of consultant for kitchen equipment for various hostel.**

It is necessary to provide modern mechanized kitchen facilities in our hostels as given below:

<u>Sl. No.</u>	<u>Name of Hall</u>	<u>Capacity</u>
1.	Homi Bhabha	700
2.	C. V. Raman	700
3.	V. S. Hall	1000
4.	M.Visvesvaraya Hall & G.D.Birla Hall	700
5.	D.B.Ambani Hall & M.S. Swaminathan Hall	700
6.	K.M. Shaw Hall of Residence	700

It is proposed to appoint a Consultant for the same by advertising in News papers and NIT website, for which preliminary steps have already been taken.

*BWC approved the proposal.*

**4) Approval for construction of security tower near periphery road.**

It is necessary to construct at least three Security Towers near NIT Periphery Road to guard the areas. The design, specification and BOQ for the same will be prepared in house. **This may cost about R.15 lakhs.**

*BWC approved the proposal.*

**5) Approval for appointment of architects for providing comprehensive architectural services for various projects.**

<u>Sl. No.</u>	<u>Name of Project</u>	<u>Approx. Built up Area</u>
1.	Master Plan of the Institute (covering made up levels of every open area, roads, buildings, ICT, electrical, water, sewerage, Green technologies etc.)	260 hectare
2.	Renovation of existing academic buildings (improvement in the light of availability of new materials and new standards)	40,000 sqm.
3.	Student Activity Centre (4 storeyed building to contain Indoor Stadium, gymnasium, offices of clubs& societies, canteens, stationery shop, ATM, barber shop, open space, etc.)	10,000 Sqm.
4.	Undergraduate Laboratory Complex (4 storeyed buildings)	12,000 sqm.
5.	Civil Engineering and Architecture Dept. Building (4 storeyed buildings)	10,000 sqm.

Prequalification applications have been received from many architects for the above works after advertisement in News papers and NIT website. Comparative Statement (Technical) indicating their experience, volume of business done during past three years etc. is under preparation.

*BWC advised that for projects costing more than Rs.20 crores, the Architect shall deploy a full time Junior Architect at site and for Projects costing less than Rs.20 crore, the firm may deploy a part time Junior Architect at site. BWC also advised to include LD clause for delay in submission of drawings by the architects.*

*BWC advised that the Architects selected have to provide a Junior Architect in the Institute as follows:*

*It further advised that for projects costing more than Rs.40 crore under a single contractor, an independent project management firm may be employed.*

**6) Prequalification of contractors (Civil & Electrical) for major projects (Ph.II) i.e. Lecture Hall complex – II, Satish Dhawan Hall of residence, Mech. Sc. Buildings, Golden Jubilee Building etc.**

In response to the advertisement in News Papers and NIT website, offers from the following 22 firms have been received:

<b><u>Sl. No.</u></b>	<b><u>Name of firm</u></b>	<b><u>Address</u></b>
1.	M/s L & T Ltd.	Chennai
2.	M/s Ahluwalia Contracts (I) Ltd.	New Delhi
3.	M/s KND Engineering Technologies Ltd.	Kolkata
4.	M/s KRR Infra Projects (P) Ltd.	Hyderabad
5.	M/s BRM Infrastructures Pvt. Ltd.	Rourkela
6.	M/s Simplex Infrastructures Ltd.	Kolkata
7.	M/s Era Infrastructure	New Delhi
8.	M/s JMC Projects (I) Ltd.	Kolkata
9.	M/s IVRCL Ltd.	Hyderabad
10.	M/s Ramky Infrastructure Ltd.	Hyderabad
11.	M/s PD Agarwal	Raipur
12.	M/s Supreme Infrastructure (I) Ltd.	Kolkata
13.	M/s Omaxe Infrastructure & Const. Ltd.	New Delhi
14.	M/s NCC Ltd.	Hyderabad
15.	M/s UPRNN Ltd.	Rourkela
16.	M/s JMC Projects (I) Ltd.	Ahmedabad
17.	M/s Shripal Goel	Ghaziabad (UP)
18.	M/s IOT Infrastructure & Energy Services Ltd.	Mumbai
19.	M/s Punj Lloyd Ltd.	Gurgaon, Haryana
20.	M/s Consolidated Const. Consortium Ltd.	Chennai
21.	M/s BE, Bildimonia & Co. Ltd.	Mumbai
22.	M/s Lanco Infratech Ltd.	Gurgaon, Haryana

Preparation of Comparative Statement showing their organization, volume of business done during last three years, experience etc. for the above firms is in progress. Thereafter, it will be put up to the

Tender Committee for prequalification. The details are given in the annexure.

*BWC advised that in order to avoid formation of cartels among the venders, EMD, Techno-commercial bid and price bid should be obtained simultaneously after which short listing of the venders will be made. Further, the contractors shall indicate the names and credentials of their sub venders (Electrical and civil) at the time of tender submission. No prequalification procedure should be undertaken, as per new norms of CPWD*

**(Annexure-A4, Page No. 29 - 34)**

**7) Extension of Main Academic Building (Joining of Central and South Blocks)**

To create additional floor space and some parking space it is proposed to join the western tips of the southern and central wings of the Main Building with a three storied structure. This will add approximately 1000m<sup>2</sup> of building space at a cost of Rs.2 crore.

*BWC approved the proposal.*

**8) System for Delivery of hot water in showers of hostels:**

The hostels, at present do not have a satisfactory hot water supply arrangement. Various options are being examined, among them – individual geysers, electrically heated overhead tanks, electrically heated central water heating system for each hall, a global hot water supply system using fuel oil or solar heating. The total budget may come in the range of Rs.1.5 crore.

*BWC approved the proposal to explore all the options, choose the most economical solution and proceed with tendering etc. .*

***BWC:15(2012)-07: Proposals for approval of BOQ and Estimate for Tendering New works:***

**1) Approval for carrying out balance work of AC Plant Building, Ph.III.**

For installation of cooling towers for the central air conditioning system, it is urgently necessary to construct one more floor over the existing structure which will also be utilized as exhibition hall and faculty rooms. An estimate has been prepared which amounts to Rs. 123.9 lakhs (Details of BOQ and specifications enclosed). **(Electrical works not included)**

*BWC approved the proposal and advised the administration to expedite the estimation of the electrical work.*

**2) Approval for undertaking civil work related to laying of pipeline and booster pump house for centralized AC system.**

M/s Blue Star have been awarded with the contract for Centralized AC system and they have started working. However, civil works such as excavation of trenches for laying of chilled water pipe lines, construction of booster pump house etc. are not included in the contract and are required to be done through a civil contractor. An estimate has been prepared and this amounts to Rs. 31.15 lakhs. Detail BOQ and specifications are enclosed for approval of the BWC.

*BWC approved the proposal.*

**3) Approval for construction of new roads in NIT Campus Ph.II.**

Presently, many new construction works for Hostels, Faculty Residence and academic buildings are in progress and will be completed before ensuing academic session. Considering the above, it is necessary to construct some new roads in the campus on priority basis. Specification, BOQ and estimate for the same are enclosed. The estimate amounts to Rs. 405.06 lakhs. Details of BOQ and specifications are enclosed for approval of the BWC.

*BWC approved the proposal.*

**4) Approval for construction of an over bridge on Road No.4.**

It is necessary to construct an over bridge on Southern Avenue at a suitable location in order to connect residential area to hostel area without entering into the academic area.

The design, BOQ and estimate have been prepared in house. The estimate amounts to Rs. 27.24 lakhs. Details of BOQ and specifications are enclosed.

*BWC approved the proposal.*

**5) Proposal for extension of Ceramic Engg. Dept. Building.**

On the request of the Department, drawings, BOQ and estimate have been prepared in house, details of which are enclosed. The technical details are as given below:

1. Total Built up Area. = 2509.1 sqm..
2. Estimated cost = Rs. 3,98,51,500.00.

**3. Technical Specifications:**

- 3.1 Type of foundation = RCC footing.
- 3.2 Superstructure = RCC frame structure,  
Brickwork  
with FPS bricks, flyash brick.
- 3.3 Flooring = Ceramic glazed tiles, vitrified  
floor tiles, Kotastone flooring,  
marble, granite.

- |     |                |   |  |
|-----|----------------|---|--|
| 3.5 | Door/Windows   | = | PVC frames, PVC door shutters, glazed doors, windows, flush door shutters, pressed steel door frame. |
| 3.6 | Finishing      | = | Distempering, acrylic wall care putty, textured exterior paint, synthetic enamel paint.              |
| 3.7 | Internal PH/SI | = | Orissa pattern WC pan, EWC pan, sanitary fittings, GI pipes PVC pipes.                               |
| 3.8 | External PH/SI | = | GI pipes, PVC pipes.   |

The estimate amounts to Rs. 3,98,51,500.00. Details enclosed.

*BWC approved the proposal.*

6) **Proposal for extension of Mining Engg. Dept. Building.**

On the request of the Department, drawings, BOQ and estimate have been prepared in house, details of which are enclosed. The technical details are as given below:

1. Total Built up Area. = 1901.85 sqm
2. Estimated cost = Rs. 3,05,05,100.00.

**Technical Specifications:**

- |     |                    |   |  |
|-----|--------------------|---|--|
| 3.1 | Type of foundation | = | RCC footing.   |
| 3.2 | Superstructure     | = | RCC frame structure, Brickwork with FPS bricks, flyash brick.  |
| 3.3 | Flooring           | = | Ceramic glazed tiles, vitrified floor tiles, Kotastone flooring, marble, granite.                    |
| 3.5 | Door/Windows       | = | PVC frames, PVC door shutters, glazed doors, windows, flush door shutters, pressed steel door frame. |
| 3.6 | Finishing          | = | Distempering, acrylic wall care putty, textured exterior paint, synthetic enamel paint.              |
| 3.7 | Internal PH/SI     | = | Orissa pattern WC pan, EWC pan, sanitary fittings, GI pipes, PVC pipes.                              |
| 3.8 | External PH/SI     | = | GI pipes, PVC pipes.   |

The estimate amounts to Rs. 3,05,05,100.00. Details enclosed.

*BWC approved the proposal.*

7) **Proposal for construction of Technology Innovation & Industrial Relations(TIIR) Centre.**

M/s Mukesh Associates are entrusted with the Comprehensive Architectural Services for the above work. They have submitted necessary drawings, Specifications, BOQ and estimate for the same.

The estimate amounts to Rs. 2808.67 lakhs. The abstract of the estimate is enclosed.

**Technical Details:**

- RCC frame structure with G+3 storeys.
- Built up Area = 14,335.00 sqm
- Air Conditioned Area = 6060.0 sqm.
- Filler walls = Brickwork with flyash/FPS bricks.
- Flooring = granite, marble, kota stone, ceramic glazed tiles, vitrified floor tile.
- Door/windows = Pressed steel door frame, flush door shutter, PVC frames, PVC door shutter, glazed door & windows, UPVC door frame & windows.
- Finishing = Acrylic washable distemping, synthetic enamel, plastic emulsion paint, wall putty, textured exterior paint, structural glazing.
- Internal PH/SI = Orissa pattern WC pan, EWC pan, sanitary fittings, GI pipes, PVC pipes, wash basin, SS kitchen sink.
- External PH/CI = GI pipes, PVC pipes.
- Internal & External works = As per specification.
- Fire fighting system = As per specification.
- Land Scaping = As per specification.

The details are given in the annexure. It will be tendered shortly.

*BWC noted the above.*

**(Annexure-A5, Page No. 35 - 92)**

**BWC:15(2012)-08: Report on award of works to contractors:**

**1) Appointment of surveyor for survey of whole campus.**

It is felt necessary to appoint a surveyor for doing a detailed survey of the whole campus as many buildings, road works etc. are in progress and many more works are required to be taken up in the near future. In response to the advertisement in News papers and NIT website, offers from the following nine firms were received:

- i) M/s Gayatree Consultant, Cuttack
- ii) M/s Creative Studio, BBSR
- iii) M/s Sidhu Survey Service, Jodhpur
- iv) M/s Pallavi Surveys, Hyderabad
- v) M/s Constell Consultants Pvt. Ltd., Kolkata
- vi) M/s Nirman, Kolkata
- vii) M/s Swayin Engineering Associates Pvt. Ltd., Odisha
- viii) M/s Pushney Infrastructure & Consultancy Services, BBSR
- ix) Sri. Ram Krisna & Co., Cuttack



After opening of the techno-commercial bids, the Tender Committee prequalified the following six firms:

- i) M/s Gayatree Consultant, Cuttack
- ii) M/s Sidhu Survey Service, Jodhpur
- iii) M/s Pallavi Surveys, Hyderabad
- iv) M/s Constell Consultants Pvt. Ltd., Kolkata
- v) M/s Nirman, Kolkata
- vi) M/s Pushney Infrastructure & Consultancy Services, BBSR

After opening of the price bids for the prequalified firms, it was observed that M/s Pushney Infrastructure & Consultancy Services have become L1 at a value of Rs. 1,44,000.00 against our estimated value of Rs. 5,44,000.00. The members of the Committee called the representative of L1 tenderer and discussed with him about the works being executed by them, proposed mobilization etc. The agency gave an undertaking confirming that they can execute the job as specified in the tender to the satisfaction of NIT at their quoted price. Considering this, the Tender Committee recommended to award the work to M/s Pushney Infrastructure & Consultancy Services at a price of Rs. 1,44,000.00. Preparation of the Work Order is under process.

*BWC noted the progress of the work.*

## **2) Interior furnishing works of library building & additional civil work at Entrance of the building.**

Estimated Cost = Rs. 30,52,516.00

Name of Architect = M/s Space Arch, BBSR

It is urgently necessary to provide interior furnishing of Library in the original portion in order to make it operational. [The extension portion has already been completed].

In response to advertisement in News papers and NIT website, offers from following 9 firms were received in 3 parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial including prequalification requirements) and 3rd part: Price bid):

- i) M/s R.D. Associates, BBSR
- ii) M/s Eastern Infrastructures Private Limited, BBSR
- iii) M/s S. K. Mohanty, Rourkela
- iv) M/ Indian Projects Associates , Rourkela
- v) M/s Orienta Furnishers, Kalunga
- vi) M/s Anusha Infradec Pvt. Ltd., BBSR
- vii) M/s G.B. Interior, BBSR
- viii) M/s Rajender Singh, BBSR
- ix) M/s ZA construction, Rourkela

After opening of the Techno commercial bids, it was observed that the following six firms were technically qualified.

- i) M/s R.D. Associates,
- ii) M/s Eastern Infrastructures Private Limited,
- iii) M/s Anusha Infradec Pvt. Ltd.,
- iv) M/s G.B. Interior
- v) M/s ZA construction.

Then the price bids of the technically qualified firms were opened. It was observed that M/s Anusha Infradec Pvt. Ltd. have become L1 at a value of Rs. 26,25,164.24 (i.e. 14% less than the estimate). The representative of the firms was called and was discussed with him about his possible mobilization and works completed by then. The agency gave an undertaking, confirming that they will execute the work at the rates quoted by them to the satisfaction of NIT. Then the Tender Committee recommended to award the work to M/s Anusha Infradec Pvt. Ltd. at Rs. 26,25,164.24 (i.e 14% lower than estimate).

Work order No. NITR/PO/WO/CT/18/11-12/18, Dt.30.11.11, No. NITR/PO/WO/CT/18/11-12/19, Dt.30.11.11, and No. NITR/PO/WO/CT/18/11-12/20, Dt.30.11.11, has been placed with the firm after due process of Scrutiny and approval.

*BWC noted the progress of the work.*

**3) Balance of work of extension and renovation of 'D' type flats (28 nos.).**

Existing Built up Area	-	1200.00 sqft.
Increase in Built up Area	-	70.00 sqft.
Total estimated cost	-	Rs. 101.74 lakhs.

In response to advertisement in News papers and NIT website, offers from following 5 firms were received in 3 parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial bid including prequalification requirements and 3<sup>rd</sup> part: Price bid):

- i) M/s Bijaya Construction
- ii) M/s A. K. Mohanty
- iii) M/s Nirmana Construction
- iv) M/s P. C. Mohanty
- v) M/s Sakuntala Enterprises

After opening of the Techno commercial bids, it was observed that all the firms were technically qualified. Then the price bids were opened. It was observed that M/s Nirmana Construction have become L1 at a price 8.75% above the estimate. In view of urgency for completion of the work, the Tender Committee decided to divide the work amongst three firms. [The possibility of splitting the order was explicitly mentioned in the tender.] The Tender Committee called the representative of L2 tenderer (i.e. M/s Bijaya Construction) and after discussion, he agreed to match their rates with L1 tenderer. Thereafter, the representative of L3 tenderer (i.e M/s A. K. Mohanty) was called and after discussion, he also agreed to match their rates with L1 tenderer. Therefore, the Tender Committee recommended to award the work amongst three firms (i.e M/s Nirmana Construction, M/s Bijaya Construction & M/s A. K. Mohanty) in the proportion of 50:30:20. Work order is under process.

*The BWC noted the progress of the work.*

**4) Addition, alteration and renovation of 'B' type quarters including construction of Garage (22 nos).**

Existing Building Area	=	1400.00 sqft.
Increase in Built up Area	=	195.00 sqft.
Total Estimated Cost	=	Rs. 191,36,981.00

In response to advertisement in News papers and NIT website, offers from following 12 firms were received in 3 parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial including prequalification requirements) and 3rd part: Price bid):

- i) M/s P. C. Mohanty
- ii) M/s S. K. Mohanty
- iii) M/s Dakeswari Enterprises
- iv) M/s G. P. Mohapatra
- v) M/s Nirmana Construction
- vi) M/s Eastern Infrastructures Pvt. Ltd.
- vii) M/s A. K. Mohanty
- viii) M/s S. K. Sahoo
- ix) M/s Bijaya Construction.
- x) M/s Indian Project Associates.
- xi) M/s Rajender Singh
- xii) M/s S. M. Islam

After opening of the Techno commercial bids, it was observed that the following six firms were technically qualified.

- i) M/s Dakeswari Enterprises
- ii) M/s Nirmana Construction
- iii) M/s Eastern Infrastructures Pvt. Ltd.
- iv) M/s S. K. Sahoo
- v) M/s Rajender Singh
- vi) M/s Indian Project Associates.

Then the price bids were opened. It was observed that M/s Eastern Infrastructures Pvt. Ltd have become L1 at a price 3.5% above the estimate. In view of urgency for completion of the work, the Tender Committee decided to devide the work amongst three firms. [It was mentioned in the original tender that the work will be split between more than one tender.] The Tender Committee called the representative of L2 tenderer (i.e. M/s Indian Project Associates) and after discussion, he agreed to match their rates with L1 tenderer. Thereafter, the representative of L3 tenderer (i.e M/s Nirmana Construction) was called and after discussion, he also agreed to match their rates with L1 tenderer. Therefore, the Tender Committee recommended to award the work amongst three firms (i.e M/s Eastern Infrastructures Pvt. Ltd., M/s Indian Project Associates & M/s Nirmana Construction) in the proportion of 50:30:20, which is as per CPWD norms.

Work order No. NITR/PO/WO/CT/32/11-12/34, Dt.30.01.2012, No. NITR/PO/WO/CT/32/11-12/35, Dt.30.1.2012, and No. NITR/PO/WO/CT/32/11-12/36, Dt.30.01.2012, have been placed with the firms after due process of Scrutiny and approval.

*BWC noted the above.*

**5) Construction of proposed extension of S.S.Bhatnagar Hall of residence.**

Total Built up Area.	=	7293.00 sqm
Estimated cost	=	Rs. 10,35,00,000.00.
Name of Architect	=	M/s Design Techno, Bhubaneswar.

In response to the advertisement in Newspapers and NIT website, offers from the following four firms were received in three parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial including prequalification requirements) and 3rd part: Price bid):

- i) M/s P. K. Rout, Rourkela.
- ii) M/s SRICO projects Pvt. Ltd. Hyderabad
- iii) Er. S. P. Padhi, Sambalpur
- iv) M/s P. D. Agarwal, Raipur

After opening the Technical bids, it was observed that all the above mentioned firms were technically qualified for the work. Then, the price bids were opened in the presence of the representatives of the firms. M/s P. K. Rout became L1 at a value of Rs. 10,86,75,000.00 (i.e. 5% above the estimate). The Tender Committee recommended to award the work to M/s P. K. Rout at a value of Rs. 10,86,75,000.00 (i.e. 5% above estimated cost).

This file is under process of scrutiny and approval.

*BWC noted the above.*

**6) Extension and renovation of KM Shaw Hall of residence (Block A,B,C, &D).**

Total Built up Area	=	1387.3 sqm
Estimated cost	=	Rs. 3,58,25,000.00
Name of Architect	=	M/s Design Techno, BBSR.

In response to the advertisement in News Papers and NIT website, offers from the following five firms were received in three parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial including prequalification requirements and 3rd part: Price bid):

- i) M/s P.K.Rout, Rourkela.
- ii) M/s SRICCO Projects Pvt. Ltd., Hyderabad.
- iii) M/s Dakeswari Enterprises, Rourkela.
- iv) M/s Sarat Kumar Sahoo., Rourkela
- v) M/s ZA Construction, Rourkela

After opening of the Technical bids, it was observed that all the above mentioned firms were technically qualified for the work. However, before opening of the price bids, M/s P. K. Rout and M/s Sarat Ku. Sahoo withdrew their offers for this work as they became L1 tenderer for other works. Then, the price bids were opened for the remaining three firms in the presence of the representatives of the firms. It was observed that M/s Dakeswari Enterprises have become L1 at a value of Rs. 3,86,91,000.00 (i.e. 8% above the

estimate). After negotiation with the firm, they have agreed to revise their rates to 7% above the estimate.

The Tender Committee recommended to award the work to M/s Dakeswari Enterprises at a value of Rs. 3,83,32,750.00 (i.e. 7% above estimated cost).

This file is under process of scrutiny and approval.

*BWC noted the above.*

**7) Alteration & renovation of 'A' type quarters (19 nos).**

Existing Built up Area	=	2000 sqft, 1800 sqft
Estimated cost	=	Rs. 2,49,21,719.00
Name of Architect	=	In house

In response to the advertisement in News Papers and NIT website, offers from the following five firms were received in three parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial including prequalification requirements) and 3rd part: Pricebid):

- i) M/s Nirmana Construction, Rourkela
- ii) M/s ZA Construction, Rourkela
- iii) M/s P.K.Rout, Rourkela.
- iv) M/s Eastern Infrastructures Pvt. Ltd., BBSR
- v) M/s Dakeswari Enterprises, Rourkela.

After opening of the Technical bids, it was observed that all the above mentioned firms were technically qualified for the work. However, before opening of the price bids, M/s P. K. Rout and M/s Dakeswari Enterprises have withdrawn their offers for this work as they have become L1 tenderer for other works. Then, the price bids were opened for the remaining three firms in the presence of the representatives of the firms. It was observed that M/s Nirmana Construction have become L1 at a value of Rs. 2,54,17,661.21 (i.e. 1.99% above the estimate). In view of urgency for completion of the work, the Tender Committee decided to divide the work amongst two firms. Thereafter, the Tender Committee called the representative of L2 tenderer (i.e. M/s Eastern Infrastructures Pvt. Ltd., BBSR) and after discussion, he agreed to match their rates with L1 tenderer. The Tender Committee recommended to award the work amongst two firms, (i.e. M/s Nirmana Construction & M/s Eastern Infrastructures Pvt. Ltd.) in the proportion of 60:40 at 1.99% above the estimate (i.e. Rs. 2,49,21,719.00) in accordance with CPWD norms.

This file is under process of scrutiny and approval.

*BWC noted the above.*

**8) Construction of balance portion of road (Technological Avenue and Eastern Avenue).**

It is necessary to complete the balance portion of the above mentioned roads with WMM and black topping. In response to the

advertisement in News Papers and NIT website, offers from the following three firms were received in three parts (i.e 1<sup>st</sup> part: EMD, 2<sup>nd</sup> part: Techno commercial including prequalification requirements) and 3rd part: Pricebid):

- i) M/s Jitendra Prasad
- ii) M/s Damodar Engineers Pvt. Ltd.
- iii) M/s USS Construction.

After opening of the Technical bids, it was observed that all the above mentioned firms were technically qualified for the work. Before opening the price bids, M/s Jitendra Prasad submitted a revised offer to the Tender Committee. Considering this, the members of the Committee informed M/s Damodar Engineers Pvt. Ltd. as well as M/s USS construction whether they would like to submit any revised offers to which the representatives of the firms did not agree. Then, the price bids were opened in the presence of the representatives of the three firms. It was observed that M/s Damodar Engineers Pvt. Ltd. have become L1 at a value of Rs. 1,06,29,959.40 (i.e. 0.1% less than the estimate).

This file is under process of scrutiny and approval.

*BWC noted the above and advised the administration to expedite the work.*

#### **9) Development work at NCC ground.**

It was urgently necessary to provide paving tiles, proper drainage near the cycle park and other development works before the convocation which took place on

BOQ, estimates were prepared in house. The estimate amounted to Rs. 11,98,790.62, and tender notice was floated.

In response to the tender notice for the above work, offers from the following four firms were received in 2 parts (i.e. EMD and price bid):

- i) M/s Eastern Infrastructures Pvt. Ltd.
- ii) M/s A. K. Mohanty.
- iii) M/s Rourkela Fabrication Works.
- iv) M/s Adarsh Enterprises.

The members of the committee opened the price bids of the above mentioned firms in presence of their representatives.

It was observed that the BWC accorded post facto approval to the selection of the architect. M/s Rourkela Fabrication have become L1 at a value of Rs. 12,89,801.00 (i.e. 7.59% higher than the estimate).

*BWC noted the above.*

**10) Appointment of architect for interior furnishing of the library building.**

M/s Space Arch, BBSR were the Consulting Architects for the Library Building which has since been completed. It was felt prudent to appoint an Architect for interior furnishing of the Library Building in order to make it operational as request of PIC (Library).

The Construction Committee met on 10.08.2011 and 11.08.2011 and felt to appoint M/s Space Arch, BBSR as they have been associated with the same building for its extension and interior work of the extension section.

The Committee recommended to award the work to M/s Space Arch at a fee of 3% of the project cost, following the practice followed so far. This process took place before the new formal policy on appointment of architects was put in place. The recommendation of the Construction Committee was approved by the Director and work order was placed. The architects have completed the work and work is in progress.

**11) Construction of collection tank and oxidation pond at 0.18 MLD capacity sewerage treatment plant.**

It is necessary to construct a RCC Sewerage Collection Pit and an Oxidation Pond near 0.18 MLD Sewerage Treatment Plant under construction.

Design, BOQ and estimate have been prepared in-house.

The estimate amounts to Rs. 5,89,910.00.

In response to the tender notice for the above work, offers from the following four firms were received in 2 parts (i.e. EMD and price bid):

- i) M/s Sudarshan Dash
- ii) M/s A. K. Mohanty.
- iii) M/s Bijaya Construction
- iv) M/s S. K. Mohanty

The members of the committee opened the price bids of the above mentioned firms in presence of their representatives. It is observed that M/s Bijaya Construction have become L1 at a value of Rs. 6,37,101.80 (i.e. 8% above our estimate rates).

This file is under process of scrutiny and approval.

*BWC noted the above.*

**(Annexure-A6, Page No. 93 - 105)**

**1) Construction of dining hall between Ambani and Swaminathan Halls of residence.**

During the course of execution for various works, some items which are not included in the BOQ (i.e. extra items) are required to be executed. These are mainly substitute items. The details of extra items, their justification of use etc. are given in the enclosure. The estimated cost of extra items is Rs.10,00,722.75 , leading to net deviation of Rs. 5,39,97,793.75.

*BWC approved the proposal.*

**2) Construction of Dining Hall between M.V. Hall and G.D.Birla Hall.**

During the course of execution for various works, some items which are not included in the BOQ (i.e. extra items) are required to be executed. These are mainly substitute items. The details of extra items, their justification of use etc. are given in the enclosure. The estimated cost of extra items is Rs.9,50,434.74 , leading to net deviation of Rs. 5,36,97,562.74 .

*BWC approved the proposal.*

**3) Extension of C.V. Raman Hall of residence.**

During the course of execution for various works, some items which are not included in the BOQ (i.e. extra items) are required to be executed. These are mainly substitute items. The details of extra items, their justification of use etc. are given in the enclosure. The estimated cost of extra items is Rs.83,63,712.91, leading to net deviation of Rs. 21,18,62,590.91.

*BWC approved the proposal.*

**4) Construction and widening of road.**

During the course of execution for various works, some items which are not included in the BOQ (i.e. extra items) are required to be executed. These are mainly substitute items. The details of extra items, their justification of use etc. are given in the enclosure. The details of the are given in the annexure. The estimated cost of extra items is Rs.31,82,751.02 , leading to net deviation of Rs. 2,32,37,105.02.

*BWC approved the proposal.*

**(Annexure-A7, Page No. 106 - 127)**



**BWC:15(2012)-10: Deviation statement of the various ongoing works.**

The deviation statement of the following ongoing works are given in Annexure.

- 1) Additional, alteration and renovation of 'F' type quarters (34 nos.) – by M/s Eastern Infrastructures (P) Ltd. : Rs.1,33,25,344.14
- 2) Additional, alteration and renovation of 'F' type quarters ( F-95 to F-108) – by M/s Sarat Ku Mohanty : Rs.60,06,514.00
- 3) Additional, alteration and renovation of 'F' type quarters (20 nos.) – by M/s A. K. Mohanty : Rs.82,22,784.10.

The details of the above deviation statements are attached in the annexure.

*BWC approved the proposal with the following suggestions.*

- i) *In view of the extension of the F type of quarters, with increase in floor space F type of quarters should be re-classified as 'E' type of quarters.*
- ii) *All G type of quarters will be renamed as F type of quarters in view of increase in floor space.*

**(Annexure-A8, Page No.128 - 131)**

**BWC:15(2012)-11: Any other item with the permission of the Chair.**

**1. Extension of scope in New Electrical Sciences Buildin:**

The New Electrical Sciences Building, designed by M/s. Arch en Design, New Delhi and being constructed by M/s. UPRNN is nearing completion. The faculty of the department have started planning their laboratories. We have received two proposals for improving the usability of the laboratories:

- a) Addition of control room and related facilities to High Voltage Lab: 4.5 m x 21 m x 2 additional floors. = 189 m<sup>2</sup> (New foundation)
- b) Two additional floors above machine lab = 12 m x 30 m x 2 floors = 720 m<sup>2</sup> for Basic Electrics and Basic Electrical Engineering laboratories.

*This may cost about Rs.3.0 crores.*

*BWC approved the proposal in toto.*

## **2. Extension of Computer Science Building:**

The Computer Science Department was created originally a purely undergraduate department with limited floor space. Now it is a major department of the Institute. Even after acquiring the EC Department, the department will be short of floor space. There is limited scope for expansion on the south side.

It is proposed to add a 4 storied structure of foot print 900m<sup>2</sup>, adding total floor space of 3600m<sup>2</sup>. Considering connecting corridors of 100 x 4 m<sup>2</sup> the total construction cost may come to Rs.8.0 crore. The design may be taken up in house or given to an architectural firm.

*BWC approved the proposal.*

## **3. Creation of a Data Centre:**

As the computational facilities are becoming more advanced and sophisticated, the institute is feeling the need of a comprehensive Data Centre to house servers, high performance computers, Network switches and related software. Companies have evolved such data centres comprising of interior civil work, electrical supply including UPS and generators, sophisticated air conditioning and data cabling. A typical facility will cost over Rs.4.0 crore.

The Institute proposes to set up a data centre in the New Lecture Hall complex.

*BWC approved the proposal.*

## **4. Construction of Hostel for female contract staff and domestic help:**

A demographic change is taking place around NIT campus. Some features of this change are – (a) increasing number of female workers in outsourced agencies (security, cleaning, gardening etc.) (b) non acceptability of domestic servants living with their family in servant quarters attached to bungalows (own or neighbour's), and (c) Dual income families in desperate need of domestic help and willing to pay for the service in market price.

To address to these needs, it is proposed to build a hostel consisting of 2 sections – 20 units of family accommodation with floor area of 35 m<sup>2</sup> excluding corridor space, and dormitory space for 50 girls. The total floor area is expected to be 2000m<sup>2</sup>. The construction cost may come at Rs.2.0 crore.

The rental on this facility is expected to be Rs.4000/- pm for the family and Rs.1000/- for dormitory accommodation, with 5% enhancement every year, which will nearly, but not totally offset the cost. The facility will be rented only by the employer or outsourcing agency, NOT by his employee residing there.

*BWC approved the proposal.*

**5. Construction of a tennis and badminton courts in Technology Club and Staff Club and an independent children's park.**

There is demand from faculty and staff for a tennis and a badminton court in Technology Club and 2 badminton courts in staff club. Besides a children's park with proper facilities is also required. The total expenditure may come to Rs.30 lakh.

*BWC approved the proposal.*

**6. Common covered car parking for E, F & G type houses.**

Increasing number of residents in E, F & G type houses are buying cars and constructing garages in front of their houses. This is ruining the view of the area in addition to creating difficulty for the residents.

It is proposed to create common covered parking facilities for the cars at suitable locations. With about 300 residents, the present demand is for about 32 cars which will go up with time.

It is proposed to build covered parking facility with light roof (frame construction with Tata Bluescope top) and concrete floor. The construction cost may come to  $32 \times 16m^2 \times Rs.500/m^2$  + cost of movement space = Rs.40 lakh.

*BWC approved the proposal.*

**7. Renovation of old Chief Warden's office and its surroundings**

The old Chief Warden's office needs renovation and rebuilding. Also when the new kitchens & dining halls are ready for Visvesvaraya, Birla, Ambani and Swaminathan halls, the old kitchens and dining halls will become surplus. This floor space can be gainfully utilized.

BWC is requested to approve appointment of an architect to work out the renovation plans of these facilities. The cost of renovation of the 5 facilities is expected to be around Rs.1.0 crore and architectural fees much higher than that for new construction.

*BWC approved the proposal.*

**8. Enhancement in scope of civil work in electric substations.**

As a part of the 33 kV Ring Main contract, one Main Receiving Substation (MRSS) and 6 secondary substations are under construction. However, the plain design of the control rooms and opaque boundary wall are expected to ruin the view of the community. It is felt necessary to give a proper elevation treatment to the already made buildings and boundary walls including tearing down some portion of the wall already constructed. The total additional cost as per NIT schedule is expected *to be Rs. 50 lakhs*. The work can be done by existing contractor under supervision of Institute staff and architect.

*BWC approved the proposal.*

**9. Renovation of the Water Fountain in front of the Main Building.**

The Water Fountain in front of the Main Institute Building has been there for nearly 40 years and is operational some times. During these 4 decades new technology and new equipment are now available. Society's expectation is also higher. It is proposed to invite proposals from fountain makers and to upgrade the facility. The total cost may come to Rs 50 lakh including new piping, submersible pumps and water filter plant. All attempt will be made to keep the cost low.

*BWC approved the proposal.*

**10. Proposal to improved acoustic features in the "Technology Club" NIT, Rourkela:**

While conducting meetings in the ground and top floors of "Technology Club", rooms are resounding. In order to improve the sound system, proper acoustic facilities are required to be provided. This may be done by an **Acoustic consultant** who has done similar work at NIT, Rourkela. The approximate cost will be Rs.20.00 lakhs.

*BWC approved the proposal.*

**12) Approval of BOQ and estimate for Hydroinsulation of staff quarters (G, F sunken and other roof) and academic building in NIT, Rourkela.**

It has become necessary to take up the roof leakage treatment work before coming monsoon. BOQ and estimate have been prepared in house which are enclosed.

The Estimated cost is Rs.23,61,332/-.

*BWC approved the proposal.*

**13. Approval of BOQ and estimate for provision of fencing around all types of quarters.**

It has become necessary to provide fencing around all type of quarters for security reasons. BOQ and estimate have been prepared in house which are enclosed. The estimated cost is Rs.115.5 lakhs.

*BWC approved the proposal.*

**14. Additional points of Electrical works for academic building.**

*BWC approved the proposal.*

The meeting ended with thanks to the Chair.

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

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



**/Annexure- A1/**

**Report on the action taken on the decisions made in the 14<sup>th</sup> Meeting of BWC held on 02.07.2011.**

<b><i>BWC item No.</i></b>	<b><i>Item Descriptions</i></b>	<b><i>Action taken</i></b>
BWC:14(2011)-03:	To report on the action taken on the decisions made in the 13 <sup>th</sup> Meeting of BWC held on 16.03.2011 and to discuss matters arising out of the minutes:	In progress.
BWC:14(2011)-04:	Review of ongoing Civil Projects:	In progress.
BWC:14(2011)-05:	Review of ongoing Electrical Projects: 1. 33 KV Substation 2. Diesel Generator	In progress.
BWC:14(2011)-06:	Approval of BOQ and estimates for New Projects.	Under process.
BWC:14(2011)-07:	Revised estimate for Extension and Renovation campus High School.	Under process.
BWC:14(2011)-08:	Administrative Approval for Widening of existing road network and construction of new roads.	Under process.
BWC:14(2011)-09:	Administrative approval for carrying out detailed urban planning for the campus. 1.	Under process.
BWC:14(2011)-10:	Policy on recruitment of Architects for Minor work.	In progress.
BWC:14(2011)-11:	Any other item with the permission of the Chair. 1) Approval of extra items for construction of Main Gate complex. 2) Revised schedule of Rates for Civil construction and Maintenance woks.	Under process.  Under process.

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



**BOG–29(2012)-11: Appointment of student counselor.**

It is observed that a number of students are suffering from psychological, mental and other stress related problems. In IITs and other Institutions, no of suicidal cases have gone up. Senate vide resolution No. .... dt..... recommended for appointment of a student counselor. It is proposed that a psychologist may be appointed on contract with a suitable remuneration for counseling the students.

Bard may consider the proposal.

**BOG–29(2012)-11: Appointment of student counselor.**