



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला
National Institute of Technology, Rourkela

Minutes of the 17th Building & Works Committee, National Institute of Technology, Rourkela held at 09.30 AM on 12.12.2012 (Wednesday) in the Board Room of the Institute.

Members Present:

- | | | |
|---|-----|-----------|
| 1. Prof. Sunil Kr. Sarangi, Director
N.I.T., Rourkela. | ... | Chairman, |
| 2. Shri S. K. Upadhyay,
Registrar, NIT, Rourkela | ... | Secretary |
| 3. Prof. R. K. Rahoo,
Mechanical Engineering
Professor, NIT Rourkela | ... | Member |
| 4. Prof. S. K. Sahoo,
Dean(PD), Civil Engg., NIT., Rourkela. | ... | Member |
| 5. Shri Ajaya Kr. Nayak, DGM
Civil Engineering, Town Engineering Department,
SAIL, RSP, Rourkela. | ... | Member |
| 6. Shri Vinod Kr Shrivastava, DGM
Refrigeration & Air Conditioning, RSP.,
SAIL, RSP, Rourkela | ... | Member |
| 7. Shri U. Mishra
Executive Engineer, PWD, Rourkela | ... | Invitee |

Members Absent:

- | | | |
|--|-----|--------|
| 13. Mrs. Amita Sharma, IAS
Addl. Secretary, Government of India
Dept. of Secondary & Higher Education,
Ministry of Human Resource Development,
Sashtri Bhavan, | ... | Member |
|--|-----|--------|

Invitees Present:

- | | | |
|---|-----|---------|
| 8. Prof. Sarat Kr. Das
PIC, Civil Construction, NIT Rourkela | ... | Invitee |
| 9. Prof. A.K. Panda,
VP, Civil Engg., NIT Rourkela. | ... | Invitee |
| 10. Prof. A. K. Sahoo
VP, Civil Engineering Dept., NIT Rourkela | ... | Invitee |
| 11. Prof. Y. K. Sahu,
V.P., EE, NIT, Rourkela | ... | Invitee |
| 12. Mr. S. P. Mohaptra,
EE (Civil), Estate Office, NIT Rourkela. | ... | Invitee |

Invitees Absent:

- | | | |
|---|-----|---------|
| 14. Er. R.C. Mishra
Superintending Engineer, CPWD, Bhubaneswar | ... | Invitee |
| 15. Prof. K. C. Biswal,
PIC, Civil Maint., NIT., Rourkela | ... | Invitee |
| 16. Prof. A. K. Sahoo
V.P., EC, NIT, Rourkela | ... | Invitee |
| 17. Prof. Chitti Babu
PIC, Electrical Maint., NIT Rourkela. | ... | Invitee |

Leave of absence was approved for all members absent.

GENERAL AND PROCEDURAL MATTERS.

BWC:17(2012)-01: Welcome to the members by the Chairman.

Chairman, Building & Works Committee welcomed all the members.

BWC:17(2012)-02: Confirmation of the minutes of the 16th Meeting of the BWC held on 15.06.2012.

The minutes of the 16th Meeting were sent to the members vide letter No.NITR/2012/BWC-16/286, Dt.05.07.2012. No comments were received from the members.

BWC confirmed the minutes of the 16th Meeting of the BWC held on 15.06.2012.

BWC:17(2012)-03: To report on the action taken on the decisions made in the 16th Meeting of BWC held on 15.06.2012 and to discuss matters arising out of the minutes:

The report on the action taken on the decisions made in the 16th Meeting of the BWC held on 15.06.2012 was presented for BWC's consideration.

BWC noted the above.

[Annexure-A1, Page No.17-19]

A. REVIEW OF ONGOING PROJECTS:

BWC: 17(2012)-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. It noted the constraints and was satisfied that the delays are inevitable under the circumstances. BWC advised to complete the major projects such as FR, New 1000 seater hostel, lecture hall Complex, Electrical Science Building etc as advised by the BOG before 31.3.2013.

[Annexure-A3, Page No.20-23]

BWC: 17(2012)-05: Review of ongoing Electrical Projects:

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

A report on the progress of ongoing Electrical Projects was presented and BWC noted the above. BWC expressed concern over the delay in completion of some projects. It noted the constraints and was satisfied that the delays are inevitable under the circumstances. BWC advised to complete the ongoing major projects as advised by BOG. The construction of conference Hall, 33KV dedicated OH line are to be expedited.

[Annexure-A3, Page No.24-26]

B. ADMINISTRATIVE PROPOSAL FOR NEW PROJECTS:

BWC: 17(2012)-06: PROPOSAL FOR NEW PROJECTS:

1. 500 Seated KMS Hall Extension

There has been large increase in the intake of girl student which will be further increased in the future. Considering the urgency; it is proposed to construct another separate building adjacent to the existing KMS Hall with common dining facility which is under renovation.

This will cost about Rs. 30.00 Crores.

The BWC approved the proposal.

2. Construction of Married Student Hostel(120 Nos).

There has been large increase in the intake of young faculty members and research scholars. It is therefore necessary to construct married student apartments about 120 Nos(Total built up area of about 50 Sqm x 1.40 x 120 = 8400 sqm.)

At the rate of Rs 20000 per sqm it will cost about Rs. 18.00 Crores.

The BWC approved the proposal.

3. Construction of 'D' Type Flats (24 Flats)

Due to large increase in the faculty and non teaching staff intake, which is likely to increase further in the coming years, it is necessary to construct 'D' Flats (110 sqm plinth area) of about 24 Nos . (6 storeyed construction).

This will cost about Rs. 24 x 110 x 1.25 x 20000 = 7.0 crores

The BWC approved the proposal.

4. Renovation of Transit Flat Houses (18 Nos) and 'E' Type Flats(18 Nos).

It is necessary to renovate these quarters to bring their quality in line with other houses of comparable standard. The scheme, BOQ and estimate are under preparation.

It will cost about Rs 90.00 lakh.

The BWC approved the proposal.

5. Construction of an additional Floor on Metallurgy and Material Sciences Department.

In order to cope up with the demand for additional space for Metallurgy and Material Science Department, it is necessary to construct an additional floor over the existing building (Two storied).

The foundation is strong enough to take the load. Necessary scheme and drawings are under preparation in house (Increase in built up area = 510.00 sqm).

This will cost about Rs. 87.00 Lakhs.

The BWC approved the proposal.

6. Provision of Interlocking tile in the parking area between CS & Lecture Gallery and area adjacent to AV Hall.

Presently, the work of excavation for laying of chilled water pipes for Central air conditioning is in progress in the above mentioned area, which is generally used for parking and service counters during seminar & cultural functions.

It is proposed to provide interlocking tile of ultra/spectra in this area. of about 1500.0sqm.

It will be cost about Rs. 15.00 Lakh.

The BWC approved the proposal mandating that Ultra brand paver tiles are to be used.

7. Construction of water bodies behind VS Hall.

There is a large pond on the southern side of SS Bhatnagar Hall adjacent to the Technology Avenue. During monsoon period, storm water runoff from majority area of the campus find access into this pond water which over flows through a weir into a valley area on the eastern side which finally discharges in to the river Koel. In order to conserve this water, it is proposed to create water bodies by channelizing the stream, raising barriers and construction of weir cum over bridge etc. The scheme is under preparation. The tender for construction of causeway cum over bridge is under finalization.

It will cost amount Rs. 95.0 Lakhs excluding the cost of causeway over bridge for which tender has been invited separately.

The BWC approved the proposal.

8. Enabling false ceiling work for Central Air Conditioning.

In order to provide central air conditioning in the Academic Buildings, AC ducting work is to be taken up for which existing false ceiling in some of the buildings are to be dismantled and new false ceiling is to be done. Detailed scheme and estimate are being prepared in house for the same. It will cost about Rs. 200 lakhs.

The BWC approved the proposal.

9. Proposal of Appointment of Architects.

Prequalification applications have been invited from leading Architects for providing comprehensive architectural service for the following project to be taken up in NIT.

The BWC approved the proposal.

<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 area, roads, buildings, ICT, electrical, Water, sewerage, green technologies etc.)	260 hectare
1.	Renovation of existing academic buildings (improvement in The light of availability of new materials and new standards)	40,000 sqm.
3.	Undergraduate Laboratory Complex (4 storeyed buildings)	12,000 sqm.
1.	Student Activity Centre (4 storeyed building to contain Indoor Stadium, gymnasium, offices of clubs& societies, canteens, Stationery shop, ATM, barber shop, lots of open space, etc.)	10,000 Sqm.
5.	Civil Engineering Department Building (4 storeyed buildings) The BWC had earlier accorded approval for the above.	8,000 sqm.

However, there are few more projects proposed to be taken up in the near future for which Architects should be appointed. The new projects include the following:

- i. 500 seated KMS Hall Extension.
- ii. Married Student Hostel, 120 nos.
- iii. Construction of 'D' Flats (24 flats)
- iv. Consultant for interior furnishing
- v. 1600 seater auditorium
- vi. Elevation treatment of CS, ME, WORKSHOP buildings on the mirth side.

It is proposed to select Architects from the list of architects who have already applied earlier after due presentation, following quality cost criteria as per Govt. of India guidelines.

The BWC approved the proposal.

[Annexure-A4, Page No. 27-31]

D. APPROVAL OF BOQ AND ESTIMATE FOR TENDERING NEW PROJECT:

BWC:17(2012)-07: PROPOSAL FOR APPROVAL OF BOQ AND ESTIMATE FOR TENDERING NEW PROJECT

1. Extension of Homi Bhaba Hall of Residence Building.

Earlier, BWC had accorded administrative approval for increase in the capacity of Homi Bhaba Hall from 400 to 700. Due to large increase in the student population and considering future increase, it is proposed to extend the existing building to create additional 300 rooms. The matter has been referred to the original Architect for this building, i.e. M/S Bose Brother Architect. They have submitted necessary drawings, BOQ and estimate for the same which are enclosed. The technical details are as given below:

Technical Details

1. Increase Built up Area: 10,800 sqm
2. Estimated Cost : Rs.981.27 lakh

2. TECHNICAL SPECIFICATION:

- | | | | |
|----|--------------------|---|--|
| 1. | Type of Foundation | = | RCC footing. |
| 2. | Superstructure | = | RCC frame structure, Brick work with FRS bricks, fly ash Brick |
| 1. | Flooring | = | Ceramic glazed tiles, vitrified floor tiles, kota Stone Flooring, marble, granite. |
| 4. | Door/Windows | = | PVC frames, PVC door shutters, glazed doors, windows, Flush door shutters, pressed steel door frame. |
| 5. | Finishing | = | Distemping, acrylic wall care putty, textured exterior Paint, synthetic enamel paint. |
| 6. | Internal PH/SI | = | Orissa pattern WC pan, EWC pan, sanitary fittings, GI Pipes, PVC pipes. |
| 7. | External PH/SI | = | GI pipes, PVC pipes. |

The BWC approved the proposal.

3. Construction of New Roads and widening of Existing Roads (Phase – III)

Presently, constructions of many academic buildings are nearing completion and many buildings are going to be taken up in the near future. In order to have better connectivity to academic as well as residential areas, it is necessary to take up construction of some new roads and widening of some of the existing roads. The details are given below:-

- a. Road from BM to CS Dept/SAC behind ME.
- b. Road from SAC to Bachelors Flat via EE.
- c. Southern Avenue including Fly over.
- d. Academic Avenue, Full, Fromm North Avenue to Hall.
- e. Industry Avenue & Entrepreneurship Avenue.
- f. Post office Road up to Bachelor's flat.
- g. Completion of Gulmohar Stadium.
- h. Widening of Cricket Stadium and Academic Avenue.

- i. Widening of approach to Turkey Stadium.
- j. Widening of selected campus Roads.
- k. Road from Crossing Road No. 4&6 up to South Boundary wall.
- l. Road from Crossing of Road No.5 &6 to South Boundary wall.
- m. Road by the side of Hall of Residence S.B.
- n. Road backside of Hall Satis Dhawan.
- o. Widening Scholars Avenue.

BOQ and estimate have been prepared in house for the same which are enclosed.

1. Technical Details : Estimated Cost: Rs.810.89 lakh
2. Technical Specifications:
3. Embankment formation.
4. Sub grade : Granular sub base (L.D. Slag).
5. Base : Wet Mixed Macadam (WMM) (265MM thick).
6. Dense Bitumen Macadam: 50MM thick.
7. Semi Dense Bitumen Macadam: 25MM thick.
8. Culvert :
 - i) RCC pipe culvert with wing walls made of brick work.
 - ii) RCC slab culvert on brickwork embankment with wing wall made of brick work.

The BWC considered the proposal in detail and approved the expenditure. It, however, advised the administration to discontinue the use of morrum based GSB and to adopt either stone based or slag based GSB.

4. Construction of Watch towers:

Earlier, the BWC has approved construction of watch towers in the campus. To start with, it is proposed to construct only two watch towers in critical areas for guarding the NIT areas, building by security personnel. The design, drawings and estimates are prepared in house which are enclosed.

Technical Details:

1. Existing Built up Area: Nil

1. Increase Built up Area:10 sqm = 2 nos.

3. Technical Specifications:

- 3.1 Type of Foundation = RCC column with isolated foundation.
- 3.2 Superstructure = Brick work in cement mortar 1:6
- 3.3 Brickwork = in cement mortar 1:6
- 3.4 Flooring = IPS
- 3.5 Finishing = Cement plaster 1:6 & white washing.
1. Internal PH/SI = Nil.
7. External PH/SI = Nil.
8. Total Estimated Cost = Rs.23.08 Lakh.

The BWC approved the proposal.

5. Name of Work: Construction of Garage for 'F' type Quarters (30 Nos.).

Earlier, BWC had accorded administrative approval for construction of garage for 'F' type quarters (30 Nos).

Detail drawings, BOQ and estimated have been prepared in-house which are enclosed.

Technical Details:

1. Existing Built up Area: NIL
 2. Increase Built up Area:
 3. Technical Specifications:
 - 3.1 Type of Foundation = RCC footing.
 - 3.2 Superstructure = RCC frame structure, Brick work with FRS bricks, fly ash Brick.
 1. Flooring = IPS.
 1. Finishing = White washing/ Distempering,
- Total Estimated Cost Rs. 20.98 Lakh.

The BWC approved the proposal.

[Annexure-A5, Page No.32-76]

E. APPROVAL OF TENDER FOR AWARD OF WORK:

BWC: 17(2012)-08: REPORT ON AWARD OF WORKS TO CONTRACTORS

1. Name of Work: Construction of Major Project (Phase-II) Civil, Electrical & HAVC.

Estimated Cost: Rs.288.59 Crores (Abstract of Estimate enclosed).

Period of Completion: 24 Months.

The Major projects (Phase-II) including the following buildings:

<u>Sl. No</u>	<u>Name of Building</u>	<u>Architect</u>
1.	Lecture Hall of Complex No-II	M/S Arch-en-Design
2.	Mechanical Science Building	M/S Arch-en-Design
3.	Faculty Residence & Parking	M/S Arch-en-Design
4.	Satis Dhawan Hall	M/S Mukesh Associates
5.	Golden Jubilee Building (13 Storeyed)	M/S Inform Architect

Tender have been invited through advertising in news paper and NIT website. Prebid conference was held on 12.10.2012 when nine prospective firms and representative of Architects were present (Details included in the minutes). The copy of the minutes of the prebid conference meeting is enclosed.

The points raised by various firms have been considered and necessary modification has been done in the BOQ, technical specifications .

The following-firms have submitted their bids in 4 parts (i.e. i) EMD, ii) Techno Commercial including prequalification requirements, iii) BOQ and other Tender documents, iv) Price bid):

1. M/s Larsen & Toubro Ltd.(L&T)
2. M/s CCCL Ltd.
3. M/s Simplex Infrastructures Ltd.
4. M/s NCC Ltd.
5. M/s Shapoorji Pallonji & Co.Ltd.
6. M/s UNITY INFRAPROJECT LTD
7. M/s U. P. Rajkiya Nirman Nigam Ltd.
8. M/s EPI Ltd.

The members of the Tender Committee first opened the Envelope No-1 On 11-12-2012 containing EMD, and Tender Paper cost and found that all of the above mentioned firms have submitted required amount in the form of Demand Draft/ Bank Guarantee. Then the members of the committee opened the Envelope No-II containing techno commercial bids, including prequalification requirements. These documents are under examination. It is felt to send a team of engineers to various places where these firms have worked, so as to verify their antecedents and performance. The prequalification of the firms will be decided based on the documents submitted and the information obtained by the team of engineers. Thereafter, the price bids will be opened.

BWC approved the proposal and authorised director to proceed with the work in the interest of meeting the urgent need of the institute.

2. Name of Work: -Design, Engineering, Supply, Construction, Fabrication, Erection, commissioning etc. of 5MLD Water Treatment Plant on Turn-Key Basis.

In response to the advertisement in News Papers and NIT website, offers from the following seven Firms have been received in 3 parts (i.e. 1ST Part : EMD, 2ND Part : Techno commercial including Prequalification requirements and 3rd Part : Price bid):

- i. M/s Pranab Roy, Bhubaneswar.
- ii. M/s Hubert Enviro Care Systems (P) Ltd., Chennai.
- iii. M/s Porel Dass Water & Effluent Control Pvt. Ltd., Howrah
- iv. M/s K.C. Sahu, Rourkela.
- v. M/s V. Rama Rao, Vijayawada.
- vi. M/s Flowmore Ltd, Rourkela.
- vii. M/s Keshari Chemicals Industries, Mumbai.

After opening of the EMD and Techno commercial bids, the members of the committee after technical evaluation, found the following firms not fulfilling the experience criteria:

- i. M/s Keshari Chemicals Industries.
- ii. M/s Flowmore, Rourkela.
- iii. M/s Parnab Roy.

Then the committee opened the price bids for the following four technically qualified firms:

- i. M/s K.C. Sahu, Rourkela.
- ii. M/s V. Rama Rao, Vijayawada.
- iii. M/s Porel Dass Water & Effluent Control Pvt. Ltd., Howrah.
- iv. M/s Hubert Enviro Care Systems (P) Ltd., Chennai.

The details of the prices quoted by the firms are as given below:

SI.No.	Name of the Firm	Lump sum Price Including Taxes & Duty. (Rs.)	Operation & Maintenance for one year(Rs.)	Total (Rs.)
i.	M/s Porel Dass Water & Effluent Control pvt.Ltd.	3,88,00,000.00	44,00,000.00	4,32,00,000.00
ii.	M/s KC.S. Pvt. Ltd.	5,83,05,380.00	66,55,100.00	6,49,60,480.00
iii.	M/s Hubert Enviro Care Systems (P) Ltd.	5, 61,39,200.00	37, 44,000.00	5,98, 83,200.00
iv.	M/s V.Rama Rao.	6,24,50,000.00	60,30,000.00	6,84,80,000.00

The member of the Committee observed that M/S Porel Dass Water & Effluent Control Pvt. Ltd. have become L1 at a total price of Rs. 4,32,00,000.00 including one year operation and maintenance.

Then the members of the Tender Committee called the representative of the L1 Tender (i.e., M/s Porel Dass Water & Effluent Control Pvt. Ltd.) and requested them to reduce their price. After prolonged discussion, he agreed to give a rebate of Rs. 1,00,000.00 from their lump sum price, making the revised price as Rs. 4,31,00,000.00 (i.e. Rs. 3,87,00,000.00 + Rs. 44,00,000.00).

The tender committee recommended to award the work to M/S Porel Dass Water & Effluent Control Pvt. Ltd., (i.e. L1 Tendered) at a total price of Rs. 4,31,00,000.00 including one year operation and maintenance.

The BWC approved the proposal.

3. NAME OF WORK: -LINKING OF SOUTH AND CENTRAL BLOCK OF ACADEMIC BUILDING (EASTERN SIDE).

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

- i. M/s S.K. Mohanty, Rourkela.
- ii. M/s Indian Projects Associates, Rourkela.
- iii. M/s A.K. Mohanty, Rourkela.
- iv. Eastern Infracture limited, Bhubaneswar.
- v. Sakuntala Enterprises, Rourkela.

The members of the committee went through the details of the Comparative statement (Technical) indicating Registration details, experience, value of the work done during last 3 years, etc. of the firms and found that all the above mentioned firms are technically qualified.

The members of the Committee opened the price bids in the presence of the representatives of the firms and observed that M/S Sakuntala Enterprises have become L1 at a total price of Rs.61, 72,861.47 against the estimated price of Rs.67, 24,249.97 which is 8.2% below the estimate.

Considering the above , the members of the committee recommended to award the work to M/s Sakuntala Enterprises at a value of Rs. 61,72,861.47 (i.e. 8.2% below the estimate rates.)

The BWC approved the proposal.

4. NAME OF WORK: RENOVATION OF F3 AND C25 QUARTER IN THE CAMPUS.

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

- i. M/s S.K. Mohanty, Rourkela.
- ii. M/s Indian Projects Associates, Rourkela.
- iii. M/s A.K. Mohanty, Rourkela.
- iv. M/s H. Parida, Rourkela.
- v. M/s P.C. Mohanty, Rourkela.

The members of the Committee opened the envelopes containing the EMDs and observed that all the above mentioned firms have submitted required amount of EMD.

The members of the Committee went through the registration details, experience, value of the work done during last 3 years, etc. of the firms and found that all the above mentioned firms are technically qualified.

Then the members of the Committee opened the price bids in the presence of the representative of the firms and observed that M/S Indian Project Associate have become L1 at a total price of Rs. 14,46,856.54 against the estimated price of Rs. 15,94,683.72 which is 9.27% below the estimate.

Considering the above, the members of the Committee recommend to award the work to M/s Indian Projects Associates at a value of Rs. 14,46,856.54 (i.e. 9.27% below the estimate rates).

The BWC approved the proposal.

5. NAME OF WORK: SUPPLY & INSTALLATION OF STRUCTURES FOR CHILDREN PARK.

In response to the advertisement in News paper and NIT website, the following three firms submitted their proposals for Supply and Installation of Structures for Children Park.

- i. Mr. A.K. Mohanty, Rourkela.
- ii. M/S Adarsh Enterprises, Rourkela.
- iii. M/S Arihant Industrial Corporation, Thane.

Out of the above firms, Mr. A.K. Mohanty did not give his presentation on the due date. After presentation by the remaining two firms and after site inspection of the works executed by them, the duly constituted committee members found M/S Arihant Industrial Corporation, Thane technically suitable for the above work. They were asked to submit their offers for the items as indicated below:

SL. NO.	CATALOGUE NO.	DESCRIPTION	UNIT	RATE (Rs.)
1	PGFT 06	SWINGING LOOP RUNG	1	36,742
2	PGSL 40	HALF ROUND NET SCRAMBLER	1	64,808
3	PGSL 05	S. BRIDGE LADDER	1	43,886
4	PGKD 05	FLYING BUTTERFLY SWING	1	36,537
5	PGSD 104	FRP ROLLER SLIDE	1	1,16,348
6	PGKD 04	A TO B SCRAMBLER	1	34,292
7	PGSS 04	MULTISEATER SEESAW	1	24,290
8	PGMR 05	FOUR SEATER MGR	1	45,519
9	PGTH 03	BALANCING BRIDGE	1	67,870

10	PGGD 15	ROYAL BENCH	2	48,784
11	MAPS 08	MULTI ACTIVITY PLAY SYSTEM	1	7,55,245
TOTAL				12,74,321
LESS SPECIAL DISCOUNT @ 5 %				63,716
TOTAL				12,10,605

The committee called the representative of the firm and requested him to reduce their rates. After prolonged discussion, he agreed to give a discount @ 5%. The committee recommended awarding the work at a total value of Rs. 12, 10,605.00

The BWC approved the proposal.

6. Name of Work: -Construction of Causeway cum Over Bridge at Road No.-2&3.

In order to create water bodies behind VS Hall, it is necessary to construct two numbers of weirs cum over bridge at Road No-2&3. The design, drawings and estimate for this have been prepared in house. The estimate amounts to Rs. 49, 11,393.00 The BWC had already accorded administrative approval.

In response to the advertisement in Newspapers and NIT website, the offers from the following three firms have been received:

- i) Sri S.K. Mohanthy.
- ii) Sri A.K. Mohanty.
- iii) Sri Nanda Kishor Das, Kendrapada.

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

Then the members of the committee opened the techno commercial bids including their performance criteria such as experience, volume of business done during last 3 years etc. and found that all the above mentioned firms are technically qualified for the work.

The members of the committee opened the price bids for following three firms:

- i) Sri A. K. Mohanty
- ii) Sri S. K. Mohanty
- iii) Sri Nanda Kishore

The members of the Committee observed that Sri Nanda Kishore Das has become L1 at a price of 13.49% lower than the estimated price.

The members of the Committee recommended awarding the work to Sri Nanda Kishore Das at a value of Rs.42, 48,845.94(i.e. 13.49% below the estimate).

The BWC may accord approval.

7. Name of Work: -Extension of Computer Science Building.

Existing Area	=	4066.4 Sqm.
Increase in Built-up Area.	=	3345.0 Sqm.
Total estimated cost.	=	Rs. 3, 18, 72,796.12.

The members of the committee went through the techno commercial document including prequalification requirements such as experience, volume of work executed during last three years etc. for the following firms who have submitted their offers:

- i) M/s P.K. Rout, Rourkela.
- ii) M/s P.D. Agarwal, Raipur.
- iii) M/s Dakeswari Enterprises, Rourkela.
- iv) M/s ZA Construction, Rourkela.
- v) M/s S.R. Regional Construction & Co, Jharkhand.

The member of the committee observed that M/s ZA Construction are not satisfying the eligibility criteria and as such not technically qualified for the work. Remaining four firms are found qualified for the work.

The members of the committee opened the price bids for the following four firms:

- i. M/s P.K. Rout.
- ii. M/s Dakeswari Enterprises.
- i. M/s P.D. Agarwal.
- iv. M/s S.R. Regional Construction & Co, Jharkhand.

The tender Committee observed that M/s P.K. Rout have become L1 at price of 3% above the estimated price.

The members of the committee recommend awarding the work to M/s P.K. Rout at a value of Rs.3, 28, 28,980.25(i.e. 3% above the estimated price).

The BWC approved the proposal.

8. Name of work: Provision of Fencing around all types of Quarters in the campus.

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

- i. M/s Omprakash Aelugani.
- ii. M/S Eastern Infrastructure Pvt.Ltd.
- iii. M/s Nirman Construction.
- iv. M/s Indian Projects Associates.
- v. M/s A K Mohanty
- vi. M/s Z A Construction.
- vii. M/s Deepak Ku. Biswal.

The members of the Committee after going through the documents and technical comparative statement found the following firms eligible for the work:

- i. M/s Z A Construction.
- ii. M/s Indian Projects Associates.
- iii. M/S Eastern Infrastructure Pvt.Ltd.
- iv. M/s Nirman Construction.

The members of the committee opened the price bids for the above mentioned agencies and observed that M/s. Z A Construction have become L1 at 7.5% less than our estimate.

The committee decided to distribute the work among 3 agencies for speedy completion of work.

The members of the committee called representative the L2 & L4 tenders who agreed to do the work at L1 rate. (L3 tender did not agree to do the work at L1 rate).

The Tender Committee recommended to award to the above work in the proportion of 50:30:20 to L1, L2, and L4 respectively.

The BWC approved the proposal.

9. Name of Work: Basement Parking for TIIR Building.

The construction of TIIR Building has been awarded to M/s S.P. Padhi Vide Work Order No. NITR/PW/WO/CT/20/12-13/20 Dated 19-06-2012 at a value of Rs.26, 679 Crores. The work is in progress.

After the award of work, it is observed that the terrain of the area is having a downward slope on the northern side, such that a lower ground floor parking on stilts can be provided instead of parking in the open area, thereby saving valuable land. The matter has been discussed with the Architect, M/s Mukesh Associates, and Chennai who have prepared a detailed drawing and estimate for the same which are enclosed.

The estimate amounts to Rs. 2.94 Crore.

It is proposed to get this work executed through the same contractor i.e. M/s SP Padhi at the same rates, terms and conditions after issuing an amendment to the contract.

The BWC approved the proposal and directed the administration to amend the work order accordingly.

10. Name of Work: Augmentation of 0.18 MLD sewerage Treatment Plant.

In response to the tender invited from NIT Registered Civil contractors of 'B' & 'A' category, offers from the following two firms have been received in 3 parts (i.e. EMD, Technical & price bid).

The tender has been finalized and LOI issued to M/s Bijaya construction at a value of Rs.19.25 lakhs (i.e. 11% higher than the estimate).

The BWC approved the proposal.

11. Name of Work: Extension of Campus High School Building.

The scheme for the above work has been finalized in house.

The work has been awarded to M/s Nirmans Construction at a value of Rs. 80.74 lakh

vide Work Order No. NITR/PW/WO/CT/37/12-13/37 dated 17-08-2012 the job is in progress.

During the course of execution, it is realized that the following additional works are required to be executed for completeness of the building and these were not envisaged originally:

- Provision of staircase.
- Stage to be added.
- Corridor merged with room in F.F. Plan.
- Site Development works included.
- Extension of toilet in South East corner.
- Walls in F.F. made 345mm thick as in G.F., similar to already constructed F.F.
- Wall dismantling in kitchen room providing joints.

A detailed estimate has been prepared for these additional works and these amounts to Rs. 29.23 Lakhs. (Details Enclosed)

It is proposed to get the above mentioned additional works executed through the running contractor i.e. M/S Nirman Construction at the same rates, terms and conditions, after issuing an amendment to the contract.

The BWC approved the proposal and directed the administration to amend the work order accordingly.

12. Name of Work: -Appointment of Consultant for PMC for TIIR Building.

Earlier, the BWC and BOG have approved the proposal for appointment of Consultant for Project Management Control for TIIR Building.

Accordingly, necessary advertisement has already been done in the News paper and NIT web site. Selection of the consultant will be done after a presentation and as per quality cum cost basis as per standard procedure recommended by Govt. of India.

The following 4 firms have submitted their offers on 07.12.2012.

1. M/s SGS India Pvt. Ltd., Kolkata.
2. M/s C.S. Architects Pvt. Ltd. Salem.
3. M.s Development Consultants Pvt. Ltd, Kolkata
4. M/s RITES, Gurgaon.

The BWC noted the above.

[Annexure-A6, Page No.77-108]

A. DEVIATION AND EXTRA ITEMS FOR VARIOUS WORKS:

BWC: 17(2012)-09:Proposal for approval of Deviation and extra items for various works:

1. Deviation statement for the work done in the Mezzanine Floor, Lift Room in Library Building.

The deviation statement of the Mezzanine floor, Lift Room in Library Building is given in Annexure. Work order was placed to M/S P.C. Mohanty vide Work Order No. NITR/PW/CT-216/09-10/255/759 dated 25.01.2010 & amendment W.O. No. NITR/PW/CT/216/11/L/3433 dated 27.05.2011. During the course of execution some items which are not included in the B.O.Q. (i.e. extra items) are required to be executed as per site requirement. The detail of extra items & deviation with justification are given in the enclosure.

The BWC approved the proposal.

2. Extra item for the work done in the Extension of Chemical Engineering Department at N.I.T, Rourkela.

The extra item statement of the extension of Chemical Engineering department in N.I.T, Rourkela is given in Annexure. Work Order was placed to M/S Siba Prasad Padhi vide W.O. No: - NITR/PW/WO/CT/66/10-11/70 dated 15.06.2010. Some items which are not included in 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.

3. Extra item for execution of "Balance Water of Extension and renovation of 'D' type flats.

Executed by:

M/s Nirman Construction

The details of extra items are given in the enclosure. These are required to be executed as per site conditions and not envisaged in the contract. There will be no deviation on this account.

4. *Extra Item for the work: Construction of Easter Avenue and Technology Avenue Road. The items are required to be executed as per site conditions. Details are given in the enclosure.*

BWC approved the above.

[Annexure-A7, Page No. 109-136]

BWC: 17(2012)-10: Any other item with the permission of the Chair.

1. Construction of a small 6 – a – side hockey field in the Dileep Tirkey Stadium and one tennis court with artificial surfaces.

Estimated cost: Rs. 70 lakhs

The BWC approved the proposal.

2. Inclusion of one additional pair of insulated pipeline for chilled water from the central AC plant room to the Booster Pump Room in the scope of M/s Blue Star to provide chilled water to future projects - golden jubilee building, two lecture hall complexes and mechanical engineering building. If the pipeline work is done later, chance of damaging existing pipes will be high. It was, however, observed that M/s Blue Star, the contractor may not agree to the work at the old rate. Estimated cost Rs.110 lakh.

The BWC considered the proposal in detail and agreed to the proposal to complete the necessary pipeline work including three segments - (1) about 500 mm dia pipe from central plant room to Booster pump room, (2) road crossings and (3) water pipe to lecture hall complexes and ME department underneath the covered walk way under construction.

The BWC approved the proposal authorised director to complete the job in consultation with consultant M/s design Services. The administration was directed to persuade contractors to accept the old rate and to negotiate a price if so needed.

3. Electrical work required for the construction of 33 KV dedicated OH line, 750 KVA DG Set, 11 KV LT cable, Electrical line for MN, CS and CR Engg. Dept.

a.	33 KV dedicated OH line from Chhend 132/33 KV Substation to NIT ---Rs 33KV/O.433 KV Substation via Koel Nagar.	₹1,90,00,000.00
b.	Diversion of 3 nos 11 KV RSP OH line for Pump House feeders to enable the passage of above 33 KV OH Line.	₹15,00,000.00
c.	Laying new cables for new feeders and diversion of Existing feeders from exiting 11 KV/0.433 KV Substation to new 33 Kv/0.433 KV substation.	₹70,00,000.00
d.	Purchase of new DG set for CSE and other academic Complex.	₹70,00,000.00
e.	Electrical wiring of Mining, Ceramic and CSE Building Extension Block.	₹1,00,00,000.00
f.	Misc addition/renovation/ and extension of Existing Computer centre,Labs in different Departments.	₹50,00,000.00
g.	Auto Change over Panels for connecting DG set power existing substation Panels.	₹20,00,000.00

TOTAL = ₹ 5,15,00,000.00

Rupees five crores fifteen lakhs only.

Dedicated 33KV OH Line from CHHEND to NIT

A. Estimate for the work

1.	Detail BOQ prepared by WESCO ----- (Sheet attached)	₹ 1,85,45,831.00
2.	Contingency	2 % ₹3,70,916.00
	Total	₹1,89,16,747.00
	Say	₹1,90,00,000.00

B. Enabling work for diversion of 11 KV RSP line from OH to cable at 33 KV crossing.

Estimate for the work

1.	Replacement of three OH line feeders with --- three 11 KV cable laid underground from second pole to entry point of RSP pump house with a stand by spare. 1200 M @ ` 1250.00	₹15,00,000.00
1.	A. LT Cables procurement and laying for diversion of route and feeders from existing 11 KV substation to 33 KV station. Estimate for the work	
	Procurement of LT Cables of various rating, laying and connections to Panels, extending DG power to various buildings and pump house.	₹70,00,000.00
A.	Procurement of DG set of 750 KVA capacity Estimate of work Purchase of 750 KVA DG set for CSE -- Substation feeding CSE and other academic building. (based on Budgetory offer)	₹70,00,000.00

B. Auto change over Panels

Estimate for the work	
Procurement and installation of Auto	₹20,00,000.00
Change over panels for feeding power	
From DG set to Substation	

4. A) **Electrical wiring of newly constructed Mining, CSE and Ceramic buildings**

Estimate for the work		
1. Electrical wiring of extension of mining building For Lab, Class Rooms and faculty Rooms.	₹30,00,000.00	
2. Electrical wiring of extension of CSE building For Lab, Class Rooms and faculty Rooms.	₹35,00,000.00	
3. Electrical wiring of extension of mining building For Lab,Class Rooms and faculty Rooms.	₹35,00,000.00 -----	
	Total	₹1,00,00,000.00
Detail BOQ under preparation.		
4. Electrical wiring/ panels replacement required to be done during Renovation/ addition of Labs and changes required for new Server Room		₹50,00,000.00

The BWC approved the proposal.

[Annexure-A8, Page No.137-142]

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

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

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