



**National Institute of Technology**  
Rourkela – 769 008(Orissa)

**Minutes of the 9<sup>th</sup> Meeting of the Building and Works Committee, National Institute of Technology, Rourkela held on 19<sup>th</sup> August, 2009 at 9.30 A.M. in the Board Room at NIT, Rourkela.**

**Members Present:**

- |     |  |     |                       |
|-----|--|-----|-----------------------|
| 1.  | Prof. Sunil Kumar Sarangi,<br>N.I.T., Rourkela.                          | ... | Director and Chairman |
| 2.  | Prof. G.C. Mitra,<br>Retired. Work Secretary,<br>Member, Govt. of Orissa | ... | Member                |
| 3.  | Prof. J.K. Pani,<br>Dean(PD), Civil Engg., NIT., Rourkela                | ... | Member                |
| 4.  | Er. S.K. Upadhyay<br>NIT, Rourkela.                                      | ... | Registrar & Secretary |
| 5.  | Prof. J.K. Satpathy,<br>PIC, Electrical Const., NIT, Rourkela.           | ... | Invitee               |
| 6.  | Prof. S. P. Singh,<br>PIC, Civil construction, NIT., Rourkela.           | ... | Invitee               |
| 7.  | Prof. C.R. Patra,<br>PIC, Civil Maint., NIT Rourkela                     | ... | Invitee               |
| 8.  | Prof. A. K. Sahoo<br>VP, Civil Engineering Dept., NIT Rourkela           | ... | Invitee               |
| 9.  | Prof. Y.K. Sahu,<br>VP, Electrical Engg., NIT Rourkela.                  | ... | Invitee               |
| 10. | Mr. S. P. Mohaptra,<br>AEE (Civil), Estate Office, NIT Rourkela.         | ... | Invitee               |

**Members Absent:**

- |    |  |     |         |
|----|--|-----|---------|
| 1. | Mr. Madan Mohan,<br>Director, MHRD (NITs)<br>Dy. Educational Adviser (NIT),MHRD, New Delhi.  | ... | Member  |
| 2. | Er. P.K. Pradhan,<br>DGM, RSP, Rourkela  | ... | Member  |
| 3. | Er. S.K. Mishra, DGM<br>Electrical & Head<br>Refrigeration & Air Conditioning, RSP, Rourkela | ... | Member  |
| 4. | Prof. A. K. Panda,<br>VP, Civil Engg, NIT, Rourkela.   | ... | Invitee |
| 5. | Prof. K. B. Mohanty,<br>PIC, Electrical Maint., NIT., Rourkela.                              | ... | Invitee |

The leave of absence was approved for all members absent.

**BWC: 9 (2009) -01: Welcome to the members by the Chairman.**

Prof. S.K. Sarangi, Director, NIT., Rourkela and Chairman, Building & Works Committee welcomed all the members.

**BWC: 9 (2009) -02: Confirmation of the minutes of the 8<sup>th</sup> Meeting of the BWC:**

The minutes of the 8<sup>th</sup> Meeting were sent to the members vide letter No. NITR/BWC-8/522 Dt. 24.12.2008. An error in recording under item No.BWC: 8(2008)-05 dt24.12.2008 was discussed, Since no job has been started for Mechanical Science Engineering building, Lecture Hall Complex and 1000 seated Satish Dhawan Hall, it was decided to put open advertisement for appointment Architects for all the above projects.

**BWC: 9 (2009) -03 : To report on the action taken on the decisions made in the 8<sup>th</sup> Meeting of BWC held on 24.12.2008 and to discuss matters arising out of the minutes:**

An Action taken on item No. BWC-08(2008)-09 /11 /12 was reviewed and the following was decided.

1. M/s Design Services will be entrusted for the work of 330 ton capacity AC plant for AV hall and Main Administrative building with the existing terms and conditions of the work order executed for the Guest House. Since the AV Hall needs to be completed soon for Convocation and other activities of the Institute, it was decided to award the contract to M/s Design Services at an estimated cost of AC Plant of Rs.2.00 crores. The consultant fee will be negotiated with M/s Design Services as it is a repeat order. For 2400 Ton capacity AC plant expansion, the selection of AC consultant will be made through open advertisement.

The Director will appoint a committee of experts for choosing the consultants for the AC projects.

2. Prof. A.K. Sahu, VP(Civil) was advised to accelerate the process for the final selection of the bidders for Institute Main Gate.

**BWC: 9 (2009) -04 : Review of ongoing Civil Projects:**

Prof. A.K. Sahu, VP(Civil) presented a list of major projects of NIT, Rourkela as given in annexure A1.

The BWC-8(2008)-4, 5 and Board vide resolution No.BOG-18(2008)-9 dt.26.09.2008 had approved the projects on 1000 Seater Hostel, Lecture Hall complex, Biomedical Engineering Building and Electrical Sciences Building etc. Following due process M/s Arch-en-Design were approved as Architects and M/s UPRNN as Contractor.

During construction it was, however, observed that the soil type was incapable of supporting the load in the proposed foundation. After further

soil tests and redesign of foundation, the work has been re-started. But in the process, the cost estimate for Lecture Hall Complex increased from Rs.9.88 crore to Rs.15.66 crore and additional floor area 2007.2 sq.m. was created. The cost estimate for Electrical Science Building increased from 17.54 crores to 28.94 crores with an additional floor area of 5737.5 sq.m. Detailed reports on the events leading to this change from the construction committee with separate notes from two members, along with observation of the Director were discussed by the committee in detail. Director informed that decision was taken for modification of the existing design of Lecture Hall complex and Electrical Science Building in the interest of the Institute. It was also resolved that the stone cladding will not be carried out in other building except Biotech and Bio-Medical Engineering building ( as work is nearing completion and cladding has already been undertaken) as suggested by Prof. G. C. Mitra.

After deliberation the following was decided.

1. The BWC approved the technical decision to alter the foundation design and noted the urgency that led to its adoption before obtaining formal approval of the Board. It recommends re-appropriation of funds as per the new estimate after the steel quantities and other item quantities are thoroughly checked by preparing a deviation statement for each work. The work on the above projects will continue so that a part of the hostels and class rooms are ready from the next Academic Session. Basements of the Electrical Sciences Building and Lecture Hall Complex are to be used for suitable academic purposes, in view of the huge costs involved.
2. Prof. G.C. Mitra, BOG member who has been requested by BOG to look into the matter informed that he would submit his report to BOG in next meeting scheduled to be held on 18<sup>th</sup> Sept.,2009.

BWC reviewed the construction work for other items.

**(Annexure- A1, Page No. 6-10)**

**BWC: 9 (2009) -05 : Review of ongoing Electrical Projects:**

BWC reviewed the ongoing Electrical projects.

The following was decided.

1. The existing 65 KVA Diesel generator will be replaced by 250 KVA generator to cater to the load of AV hall, administrative building and other academic requirements. 65 KVA generator will be used for the Guest House.
2. Professor in charge, Elect. Const. was advised to finalise the scheme for transformers for proposed 33/0.4 K.V. substation and take initiative for tendering, so that the project can be completed by 30<sup>th</sup> June, 2010.

**(Annexure- A2, Page No. 11-13)**

**BWC: 9 (2009) -06: Discussion on proposed New Projects:**

(A) BWC noted the following new projects to be taken up during the year and advised to expedite the process by tendering.

| <i>Sl. No.</i> | <i>Name of the Project</i>  | <i>Approved by</i>   | <i>Remarks</i>   |
|----------------|---|--|--|
| 1.             | New 1000 seater Hostel: Satish Dhawan Hall of Residence.  | Board vide resolution No. BOG-18(2008)-09 dt.26.09.2009.<br>BWC-8(2008)-5 dt24.12.2008 | Architect to be selected and tendering to be done.   |
| 2.             | Construction of Mechanical Science Building   | Board vide resolution No. BOG-18(2008)-09 dt.26.09.2009.<br>BWC-8(2008)-5              | Architect to be selected and tendering to be done.   |
| 3.             | 2 <sup>nd</sup> Lecturer Hall complex   | Board vide resolution No. BOG-18(2008)-09 dt.26.09.2009.<br>BWC-8(2008)-5              | Architect to be selected and tendering to be done.   |
| 4.             | 7 storied Golden Jubilee building for Business School and other academic departments.           | BWC-8(2008)-12(C)  | Architect to be selected and tendering to be done.   |
| 5.             | Dormitory facility for mess, security and hall workers  | BOG vide resolution No.BOG-19(2008) dt.29.12.2009.<br>BWC: 8 (2008) –8                 | The Board advised that while constructing dormitory for Mess workers, sufficient care should be taken in consultation with legal experts in framing the mess contract for possible demand for regularization of service of contractor's personnel. |
| 6.             | Construction of SBI building and Post Office near main gate and Post Office.                    | BWC: 7 (2007) – 5: & BWC: 8 (2008) – 12  | Tendering to be done.  |
| 7.             | Extension C.V. Raman Hall of Residence (Hall-6)   | BWC: 8 (2008) –4   | Tendering to be done.  |
| 8.             | Extension of Chemical Engineering Department  | BWC: 8 (2008) –6   | Tendering to be done.  |
| 9.             | Construction of Garage of 'D' type flat.  | BWC: 8 (2008) –2   | Tendering to be done.  |
| 10.            | Renovation of Ladies Hostel Block A, B, C & D.  | BWC: 8 (2008) –7   | Tendering to be done.  |
| 11.            | Common Dining facility and parking for -<br>1. G.D. Birla & M. Visvesvaraya Halls of Residence, | BWC: 8(2008) –12(C)  | Architect to be selected and tendering to be done.   |

|     |  |                    |  |
|-----|--|--------------------|--|
|     | 2. Dhirubhai Ambani & Swaminathan Halls of Residence                           |                    |  |
| 12. | Renovation of Sewerage System in Campus and Hostels etc.                       | BWC-7(2007)-4      | Tendering to be done.                              |
| 13. | Centre for Technology Incubation & Entrepreneurship Development                | BWC-8(2008)-12(b)  | Architect to be selected and tendering to be done. |
| 14. | 2400 Ton capacity AC Plant for Academic Building (old and complete new campus) | BWC: 8 (2008) – 09 | Consultant to be selected and tendering to be done |
| 15. | 330 Ton Capacity AC Plant for AV Hall and Main Building.                       | BWC: 8 (2008) – 09 | Tendering to be done.                              |

(B) BWC approved the following new projects as given below.

| Sl. No. | Name of the Projects  | Approximate Cost (Crores) |
|---------|---|---------------------------|
| 1.      | Student Activity Centre in Hall area                                    | 4.00                      |
| 2.      | Faculty Residences 84 nos.(2 <sup>nd</sup> Phase)                       | 12.00                     |
| 3.      | Land scaping of entire campus including roads and drainage.             | 20.00                     |
| 4.      | Extension of S. S. Bhatnagar Hall for married students.                 | 6.00                      |
| 5.      | New Water pipeline, intake Well and settlement tank through RSP colony. | 4.00                      |
| 6.      | Addition & alteration of A,B type quarters                              | 4.00                      |
| 7.      | Interior works for Library building & AHU Rooms.                        | 2.00                      |
| 8.      | Construction of Conference Hall for Senate meeting etc.                 | 0.75                      |
| 9.      | Addition & alteration of Dispensary                                     | 0.60                      |
| 10.     | Extension of M.S. Swaminathan Hall                                      | 7.00                      |
| 11.     | Extension of Homi Bhaba Hall.   | 3.00                      |
| 12.     | Kota stone /Tile flooring in Academic area.                             | 1.00                      |
| 13.     | Renovation of old AC Plant room in quadrangle.                          | 0.04                      |
| 14.     | Renovation of front of Bhubaneswar Behera Auditorium                    | 0.25                      |
| 15.     | Renovation of Main Academic Building & demolition of Minor structure    | 0.20                      |
| 16.     | 33 KV hot line with mini lattice town poles to NIT campus               | 4.00                      |
| 17.     | Extension of Civil, Mining & Ceramic Engineering Department             | 4.00                      |

The Architect for the above work will be chosen from the new list of approved Architect as mentioned in item No.BWC:9(2009)-8. Calculation showing the Plinth Area/Quantity for each work and unit rates adopted for each will be included as Annexure.

**BWC: 9 (2009) – 07: Progress on Construction of new 33/ 0.4 KV. Substation and Electrical network.**

The consultant M/s SATCON, Kolkata for Turn Key work was finalized. Turn key work for Total system consisting of 33 KV receiving Substation with VCB and Metering Panel, 33 KV Ring Main and Cabling, 33 KV / 0.433 KV New Substations & Conversion of 11KV/0.433KV substation to 33 KV / 0.433 KV job to be awarded on 15.09.09. It is expected that all sub- stations will be completed by 30<sup>th</sup> June 2010.

**BWC: 9 (2009) – 08: Selection of Architects / Consultants for New construction Projects:**

A list of 56 Architects who have applied for empanelment for NIT, Rourkela was reviewed by the BWC. BWC advised to shortlist approximately 12 Architects depending on experience, quality of service and consultancy fees. For the new projects the empanelled Architects will be asked to present on the specific projects before the committee to be appointed by the Director for final selection of the architects of the different buildings. The validity of the empanelment Architects will be for 5 years.

**(Annexure- A3, Page No. 14-36)**

**BWC: 9 (2009) – 09: Any other Items with the permission of the Chair.**

Deviation Statement of all the ongoing Projects under Civil Construction was put up by Prof. A.K. Sahu, VP(Civil). BWC discussed and approved the revised statement as given in annexure.

**(Annexure- A4, Page No. 37-38)**

The meeting ended with thanks to the Chair.

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

(Sunil Kr Sarangi)  
Director & Chairman  
Building & Works Committee