



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

**MINUTES OF THE 8<sup>th</sup> MEETING OF BUILDING & WORKS COMMITTEE OF NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA HELD ON 24<sup>TH</sup> DECEMBER, 2008 AT 08.30 AM IN THE BOARD ROOM OF NIT, ROURKELA**

**Members Present:**

1. **Prof. Sunil Kumar Sarangi,**  
Director and Chairman  
BWC, NIT Rourkela.
2. **Er. S.K. Mishra, DGM**  
Electrical & Head  
Refrigeration & Air Conditioning, RSP, Rourkela
3. **Prof. S. Rauta,**  
Electrical Engg. Dept., NIT., Rourkela
4. **Prof. G. Panda,**  
Dean(PD) I/C, NIT., Rourkela
5. **Er. S.K. Upadhyay**  
Registrar & Secretary, BWC, NIT., Rourkela

**Special invitees:**

6. **Prof. J.K. Satpathy,**  
PIC, Electrical Const., NIT, Rourkela.
7. **Prof. S.P.Singh,**  
PIC, Civil construction, NIT., Rourkela.
8. **Prof. C.R. Patra,**  
PIC, Civil Maint., NIT Rourkela
9. **Prof. K. B. Mohanty,**  
PIC, Electrical Maint., NIT., Rourkela.
10. **Prof. A. K. Sahoo**  
VP, Civil Engineering Dept., NIT Rourkela
11. **Prof. A. K. Panda,**  
VP, Civil Engg, NIT, Rourkela.
12. **Prof. Y.K. Sahu,**  
VP, Electrical Engg., NIT Rourkela.
13. **Mr. S. P. Mohaptra,**  
AEE (Civil), Estate Office, NIT Rourkela.
14. **Mr. S.K. Sahu,**  
Asst. Engineer, NIT, Rourkela

**Members Absent:**

1. **Mr. Madan Mohan,**  
Director, MHRD (NITs)  
Dy. Educational Adviser (NIT),  
Minister of HRD, Dept. of Secondary  
Education & Higher Education, New Delhi.
2. **Er. S.C. Kar, G.M.**  
Mital Steel Limited, Fortune Towar,  
Chandrasekharapur, Bhubaneswar.
3. **Prof. U.K. Mohanty,**  
Dean (PD),  
Professor, Met. & Mat. Engg., NIT, Rourkela

The leave of absence was approved for all members absent.

**BWC: 8 (2008) -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: 8 (2008) –02: Review of on going and new Civil Projects.**

**A) Item No.- 3 : Extension & Renovation of ‘D’ Type Qrs., ‘D’ Type Flat, ‘F’ Type Qrs,**

1. The placement of Work Order for ‘D’ Type Quarters and ‘B’ Type Quarters to be expedited.
2. Delay in payment of work bills to be reviewed and expedited.

**B)** It was decided to complete the measurement work and settle all the bills for the work done by IDCO for construction of Road.

(ANNEXURE – 1)

**BWC: 8 (2008) – 03: Review of on going and new Electrical Projects.**

**Item No.- 6 to 7 : Faculty club & Staff club House, Chemical Building extension**

BOQ is not received from M/s Space – Arch. To be expedited.

(ANNEXURE – II)

**BWC: 8 (2008) – 04: Extension of C.V. Raman Hall of Residence. The student growth plan of the Institute is given below.**

<b>Programme</b>	<b>Current strength</b>	<b>08-09</b>	<b>09-10</b>	<b>10-11</b>	<b>11-12</b>	<b>12-13</b>	<b>13-14</b>	<b>14-15</b>
B.Tech	1080	1735	1885	2140	2680	3265	3555	3840
M.Sc.	180	192	267	360	510	690	870	900
M.Tech	648	684	771	886	950	950	950	950
MBA			30	90	150	180	180	180
M. Tech (Res)	50	50	75	100	125	150	175	200
Ph.D.	100	100	150	200	250	300	350	400
<b>Total</b>	<b>2058</b>	<b>2761</b>	<b>3178</b>	<b>3776</b>	<b>4665</b>	<b>5535</b>	<b>6080</b>	<b>6470</b>
<b>Hostel capacity</b>	<b>1934</b>	<b>1934</b>	<b>1934</b>	<b>2934</b>	<b>3934</b>	<b>4934</b>	<b>5934</b>	<b>5934</b>
<b>Shortfall</b>	<b>(-)124</b>	<b>(-)827</b>	<b>(-)1244</b>	<b>(-)842</b>	<b>(-)731</b>	<b>(-)601</b>	<b>(-)146</b>	<b>(-)536</b>

It has become essential to accommodate the increase in student strength in the coming years. Buildings Works Committee may consider the proposal for increase of 400 seats in C.V. Raman Hall of Residence. M/s Space Arch who have been recommended after competitive presentation (advertised in newspaper twice, only one firm expressed interest) may be appointed as Architect for the above work.

BWC approved the proposal for extension of C.V. Raman Hall of Residence and appointment of M/s Space-Arch as Architect.

**BWC: 8 (2008) – 05: Construction of Mechanical Science Building, New Lecturer Hall Complex and 1000 seated hostel.**

BOG Vide resolution No.- BOG-18(2008)-09 approved for construction of Mechanical Science Building, New Lecturer Hall Complex & 1000 seater hostel.

The present architect for Lecturer Hall complex, Electrical Building and 1000 seater Hostel (Hall – 8) may be engaged for the 3 new buildings of nearly identical design.

BWC noted and approved the above.

**BWC: 8 (2008) – 06: Extension of Chemical Engineering Department building.**

Due to less floor space, which has been mentioned by the Audit team, it is proposed to have a separate Academic building for Chemical Engineering Department. M/s Space Arch have submitted architectural design.

BWC recommends the extension of Chemical Engineering Dept. Building.

(ANNEXURE-III)

**BWC: 8 (2008) – 07: Renovation of K.M. Shaw Hall of Residence (LH).**

The K.M. Shaw Hall of Residence has become old and it needs renovation (Floor, Bath Room, Toilet etc).

BWC approved the renovation of K.M. Shaw Hall of Residence (Ladies Hostel).

**BWC: 8 (2008) – 08: Dormitory facility for mess, security and hall workers instead of hall.**

Some of the workmen working in the messes, security and other services of halls of Residences need to be accommodated in the campus Old Hostel have small barracks for them. But this is leading to social problems in the hostels. Instead of making provision in the Hall of Residences, it is proposed that a separate building may be constructed having capacity of 120 at an estimated cost of about Rs. 60 Lakhs approximately.

BWC approved the construction of Dormitory for the workmen working in halls., mess and security etc. having capacity of 120, instead. Of separate accommodation in different hostels.

**BWC: 8 (2008) – 09: Progress of Central Air Conditioning Project**

The BWC vide resolution No.BWC-6(2006)-13 {approved by BOG vide Resolution No. BOG-12(2007)- 06} had approved major air-conditioning project for Guest House, auditoriums and academic buildings. M/s Design Services, Kolkata were appointed as consultants and M/s Blue Star Limited

were awarded contract for complete air conditioning of Guest House (South Block) and Low end equipment for AV Hall, Lecture Gallery and part of Library. The work was delayed because the civil work of these buildings was not completed. The committee noted that work is progressing well now. The committee advised the administration to include Guest House (North Block) without adding extra refrigeration capacity in the existing contract with M/s Blu Star. The Committee also approved air conditioning of selected facilities (sophisticated engineering labs., seminar rooms, computer rooms faculty rooms, office etc) in the existing as well as new buildings, totaling approximately 2500 TR. The committee approved that M/s Design Services may be asked to design the central plant room and the low end equipment of the old campus. The low end equipment of the new campus will be designed by the architects M/s Arch-en Design. The administration was advised to initiate the process of obtaining BOQ from consultants and proceeding with the tendering process.

BWC advised that detail engineering to be done and construction work may be taken up.

**BWC: 8 (2008) – 10: Road Network.**

In view of the expansion of hostels and academic building, faculty houses as well as access to hitherto unused areas, it is proposed to construct additional road network in the campus. The approximate length will be around 10 kilometers.

BWC approved for additional construction of Road Work of about 10 Kilometers in the campus.

**BWC: 8 (2008) – 11: Construction of new 33/ 0.4 KV. Substation and Electrical network.**

The Institute is drawing power more than 1000 KVA from WESCO. The Load requirement of the Institute may be increased up to 5000 KVA in coming 5 years. As recommended by WESCO and as per statutory requirement, the same must drawn through 33 K.V. Sub-Station. Accordingly the proposal, for the construction of 33/0.4 KV substation is given in Annexure -IV.

BWC approved the construction of 33/0.4 Power substation and associated electrical network and the following was decided.

1. Possibility of connecting domestic load from existing 11 KV power supply and Academic and other load from new 33 KV substation may be explored. Since there may be 2 connections, the scheme may be finalized in consultation with WESCO.
2. The project may be done on turn key basis, the Quotations being asked from reputed switch gear manufacturers only.

**(ANNEXURE – IV)**

**BWC: 8 (2008) – 12: Any other item with the permission of the Chair.**

- 12: (a)** Since the entrance through the main gate is crowded and jammed, for the safety of students, staffs and faculty members, it was decided to construct a new gate near the Institution of Engineers building as

suggested by RSP authorities. M/s Space- Arch will be appointed as Architect for the same.

**12: (b)** In view of availability of extra space and construction of New Boundary wall on the western side of the campus, the available additional space will be utilized for

- (i) A Centre for Technology Incubation and Entrepreneurship Development.
- (ii) Bank and Post Office etc may be shifted to the location under reference.

An open competition may be held between architectural firms for the design.

**12: (c)** For convenience of students, it was decided to have common dining halls with modern facility for halls (M. Visvesvaraya Hall of residence + G.D. Birla Hall of Residence) combined and (Dhirubhai Ambani Hall of Residence + M.S. Swaminathan Hall of Residence) combined.

M/s Design Techno who are overseeing the extension and renovation of all the 4 halls may be assigned the job of designing the four new kitchen + dining hall facilities.

**12; (d)** The extension of existing Homi Bhabha Hall of Residence by 200 seats approximately was approved. M/s Bose Brothers who have design the HB Hall may be entrusted with the extension work.

**12: (e)** It was decided to construct a six storied building at a Central location on the occasion of Golden Jubilee celebration of the Institute for accommodation of new Departments such as Business School, Life Science, Computer Centre, Exhibition hall etc.

**12: (f)** It was decided to install 01(one) MW Diesel Gen set for supply of emergency power to Academic Building, hostels, street light etc. Detail engineering may be made for the same.

The meeting ended with thanks to the Chair.

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

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