DRAFT MINUTES FOR 39TH MEETING OF THE BUILDING AND WORKS COMMITTEE HELD ON 3rd March 2016 VNIT, NAGPUR.

The following members were present:

1. Dr. Narendra S. Chaudhari, Director, VNIT, Nagpur - Chairman
2. Dr. S.R. Sathe Dean(P & D) VNIT, Nagpur - Member
3. Dr.S.C.Sahasrabudhe,BoG Nominee - Member
4. Mr.O.G.Sontakke,Ex.Engineer,PWD Representative - Member
5. Mr.V.P.Markandey,ASE(Electrical),PWD Representative - Member
6. Dr. Rajendra Yerpude, Registrar, VNIT, Nagpur - Member Secretary

Dr.V.A.Mhaisalkar,Prof.of Environmental Engineering, Dr.M.R.Ramteke, Associate Dean Electrical, Shri K G Barapatre, Ex.Engineer and the representatives from NBCC Ltd. were present for the meeting.

BWC 39.01 To confirm the minutes of the 38th meeting of the Building and Works Committee.

The minutes of the 38th meeting of the BWC are placed at Annexure-I.

The BWC is requested to confirm.

Resolution: BWC has confirmed the minutes.

BWC 39.02 Action Taken Report on the minutes of the 38th meeting of the BWC .

Resolution No.	*Agenda*	*Resolution*	*Action Taken*
BWC 38.03	*Review of the detailed drawings, plans and elevations submitted by NBCC Ltd. for new construction.*	*NBCC Ltd. gave the presentation in detail regarding New Construction Activity to be initiated at VNIT, Nagpur.* *The deliberation regarding construction of academic block, students hostels for boys and girls and mega messes for boys and girls took place.* *The status report of various activities undertaken by M/s NBCC Ltd are also reported.*	*The approved plans and drawing have been handed over to NBCC Ltd. with the suggestions.*

		They are *i)Soil testing Report.* *ii)Bill of quantity and Estimate.* *iii)Bids of various items etc.* *It was suggested to ensure fire fighting mechanism for all new buildings.*	
BWC 38.04	*Demolition of temporary structures and old buildings at the proposed site of new construction.*	*BWC has reviewed the sites of new construction activity were some temporary structures are to be removed and accorded approval in principle.*	*Demolition work is completed.*

Resolution: BWC has noted the action taken report with the observation that the fire fighting access and space should be provided at the eighth floor of all buildings. This was informed to the NBCC Ltd representative who were present for discussions.

BWC 39.03 The progress report of New Construction Activities.

As approved earlier, the various construction works started by M/s NBCC Ltd. the details of which are as given below:

Sr. No.	*Activity*	*Progress Report*
01	*Construction of Academic block*	*The excavation work is completed. The foundation work for all the new constructions is completed and project is reported as per the schedule.*
02	*Construction of Girls Hostel G+11 storied*	
03	*Construction of Boys Hostel,G+10 storied*	
04	*Mega Mess for Boys*	
05	*Mega Mess for Girls*	

The BWC is requested to note.

Resolution: The BWC noted the progress report of New Construction Activities and NBCC Ltd. representatives gave the present status. Based on the bills raised for Rs.14.24 Crores and payments for purchases for Rs.17.39 Crores regarding new construction, NBCC Ltd has submitted the statements for the release of payment. It is recommended that the amount of Rs.14.24 Crores for completed works is to be paid. Additionally, 75 % for the purchases of Rs.17.39 Crores i.e Rs.13.04 Crores payment is also recommended. The total payment thus calculated as Rs.27.28 Crores together is recommended for the payment to NBCC Ltd. This

release of payment is necessary for smooth and on schedule project completion for these new construction activity.

BWC 39.04 Installation of Solar Panels and Units on VNIT buildings and pathways.

It is proposed to install solar panel and units on VNIT buildings and pathways in order to meet energy demand of the institute. This will also useful to generate clean energy on VNIT campus.

Sr No	Particulars of the area available for solar installation	Area in sq meters	Estimated Power generation capacity	Installation Cost without subsidy at @ Rs.80000 per KW	Installation Cost without subsidy at @ Rs.80000 per KW with 15 % subsidy.
1	Academic and Administrative Buildings Terrace.	21595	7650 KW	Rs.60.90 Crores.	Rs.51.80 Crores.
2	Hostels and Guest House	19261			
3	Proposed Pathways Top	70325			

The detail proposal is enclosed in annexure-II.

BWC is requested to discuss and approve the installation of Solar Panels and Units.

Resolution: The solar power generation is in accordance with the national mission which gives the clean and green energy. The institute has submitted the proposal to the MHRD for the solar installations on VNIT campus.

BWC approved the proposal in principle with the suggestion to follow up the proposal depending on the availability of the funds.

BWC 39.05 Setting of sewage water treatment plant and a biogas plant

i). **Sewage treatment plant:** The institute campus generates the sewage waste water approx.510 cubic meter per day. Presently, water is not treated but discharged into the public sewage. If this water is treated then it will meet the requirement pertaining to flushing, washing and watering the garden and lawns. Therefore, it is proposed to set up sewage water treatment plant using Membrane Bio-Reactor(MBR) with the initial capacity of 600 cubic meter per day. The estimate is given below

Particulars	Estimated Cost
Construction and Installation of Sewage Treatment Plant.	Rs.3.00 Crores
Rehabilitation, repair and reorganization of existing sewage network to suit the requirement water treatment plant	Rs 1.50 Crores
Sub total	Rs 4.50 Crores

ii). **Biogas plant:** Institute is generating about 386 kg/day the kitchen waste through various hostels, guest house and campus residents. The kitchen waste is fully organic in nature and potential to generate biogas after suitably treating an aerobically. If, this biowaste is treated then it will generate approx. 30.8 cum gas per day.

The estimate is given below

Particulars	Estimated Cost
Construction of biogas plant	Rs 0.5 Crores

The total estimated cost for sewage water treatment plant and biogas plant is Rs 5 Crores. The detail proposal is enclosed in **annexure-III.**

BWC is requested to approve.

Resolution: BWC approved the proposal in principle with the suggestion to prepare detailed report .

BWC 39.06 Refurbishment of Kitchen of various Staff Quarters.

The existing kitchen of quarter No. 28 to 43, 5, 11 to 12, 21, 67 to 78 , C-21 to C-40 and M1 to M33 are in very bad shape. The cupboards below platform are in dilapidated state. Kitchen is not renovated since its construction. Window of the kitchen is also in dilapidated state. However, the refurbishment of kitchen in other quarters already carried out. It is therefore proposed to carry out the work of refurbishment of kitchen platform of above mentioned quarters (remaining). The estimated cost of the above said work is Rs.36.15 Lac. The detailed estimate is prepared on the basis of Mah. PWD CSR 2015-16. The detail estimate is enclosed in Annexure-IV

BWC is requested to approve.

Resolution: BWC approved the proposal.

BWC 39.07 Internal and external painting of various Staff Quarters

The internal painting of quarter No. 2-10, 11-21, 28-54, 55-66, 67-78, C21-C40 & CN01-CN08 was not carried out since more than three years. The wall surfaces and doors, grills and window surfaces looks very shabby and it is due for internal painting. As per maintenance norms, it is to be taken up after every three years. It is therefore proposed to carry out the work of internal painting of abovementioned quarters.

Secondly, external painting of quarter No.M1-M33 and C21-C40 was not carried out since more than five years and several cracks are repaired from outside and hence external wall surface looks very shabby. It is therefore proposed to carry out external painting of these quarters.

The detailed estimate is prepared on the basis of Mah. PWD CSR 2015-16. The estimated cost of the above said work is Rs.37 Lac. The detail estimate is enclosed in Annexure-V

BWC is requested to approve.

Resolution: BWC approved the proposal.

BWC 39.08 To approve the procurement of Indoor Transformer 800 KVA,11KV/433 Volts for substation "A" ,Vacuum circuit breaker at Sub Station "B" and laying of HT Cable from Sub Station "C" to Sub Station "A" in the V.N.I.T Campus.

The proposal for Supply ,Erection ,Testing and Commissioning of Indoor Transformer 800 KVA,11KV/433 Volts at substation "A" ,Vacuum circuit breaker at Sub Station "B" and Supplying / laying of HT Cable from Sub Station "C" to Sub Station "A" in the V.N.I.T Campus along with detail cost estimated expenditure is given in **Annexure-VI(A)**.

Total estimated cost for this work approximately:- Rs.60 lakh.

The summary of work to be carried out is as given below:
i) **Laying of HT Cable from Sub Station "C" to Substation "A"** As 800 KVA Transformer would replace 250KVA transformer thus raising the capacity. Existing HT cable has joints .To work with increased capacity , it is proposed to lay new HT cable from Sub Station "C" to Substation "A". Estimate expenditure for this work is Rs. 19 Lakh.

ii) **Erection and Commissioning of Indoor Transformer 800 KVA,11KV/433 Volts at substation "A"**, electrical load of our VNIT campus, NBCC, IIM is increasing day by day. NBCC alone needs 250 KW for construction purpose. Hence the transformer at our Sub Station "A" is getting overloaded. Sanction demand for VNIT is 1000 kVA and in summer it increases is to about 1150 kVA. In order to sustain the future load and avoid major breakdown, it is proposed to replace the existing one transformer of 250 kVA by 800 kVA. This existing 250KVA transformer will be installed at substation "B" as also the load on hostel side is increasing day by day. Estimate expenditure for this work is Rs. 30 Lakh.

iii) **Erection and Commissioning of Vacuum circuit breaker at Sub Station "B".** 250KVA transformer proposed to be installed at substation "B" need additional VCB with accessories to be installed. Civil construction need to modified for this purpose. Estimate expenditure for this work is Rs. 11 Lakh.
BWC is requested to approve.

Resolution: BWC approved the proposal.

BWC 39.09 Installation & Procurement of 100 KVA Diesel Generator & AMF panel for Network Centre.

Network centre has many computer servers which are critical in nature. In order to provide continuous power supply 2 UPS (30 KVA) are installed and connected to essential loads of the server room. The batteries for UPS incur recurring expenditure of about 3 Lakhs (bi-annually). To avoid this recurring expenditure it is proposed to install one 100 KVA DG set with AMF panel to provide un-interrupted power supply to Network centre and essential load in nearby departments (Computer Science, Electronics & Communication). The expenditure on this account is Rs 13, 11,118/-.The detailed cost estimated expenditure is given in **Annexure-VI**(B)
BWC is requested to approve.

Resolution: BWC approved the proposal.

BWC 39.10 Any other item with the permission of Chair. NIL

The meeting concluded with the vote of thanks to the chair.

Chairman-BWC