

**Minutes of Fourth Meeting of the Building and Works Committee  
(BWC) of Indian Institute of Information Technology  
Design and Manufacturing, Kurnool, Andhra Pradesh**

**Held on 18-03-2020 (Wednesday) 10:30 A.M. at  
E&ICT Academy, NIT, Warangal**

**Members Present:**

1	Prof D V L N Somayajulu, Director, IIITDM, Kurnool	::	Chairperson
2	Prof. N V Ramana Rao, Director, NIT, Warangal	::	Member
3	Prof. T D G Rao, Dept. of Civil Engineering, NIT, Warangal	::	Member
4	Sri C N. Suresh, Supt. Engineer, CPWD, Warangal	::	Member
5	Sri B. S. Reddy, SE(Electrical), CPWD, Hyderabad	::	Member
6	Dr M. Nithyadharan, Dept. of Civil Engineering, IIT, Tirupathi	::	Member
7	Sri C Subrmaanyam, EE, CPWD Division, Kurnool	::	Member
8	Sri Prasad S R, Architect, M/s Space Matrix, Bangalore	::	Member
9	Dr Eswaramoorthy K V, Dept. of ECE, IIITDM, Kurnool	::	Convener

**Members Absent:**

1. Sri G. K. Vijayanand, Consultant Engineer, IIITDM, Kurnool - Special Invitee

**General Discussion:**

The Chairman welcomed the members to the fourth BWC meeting of IIITDM, Kurnool and thanked E&ICT Academy, NIT, Warangal for sparing the meeting hall for this meeting. Later BWC discussed the Agenda items in detail and the following decisions are taken. Two BWC members Dr M Nithyadharan and Sri B S Reddy and one special invitee Sri Prasad S R have attended the meeting through online (Google Meet).

Item No.	Item Description							
<b>BWC-4(2020)-01</b>	<b>Consideration and approval of the Minutes of Third Meeting of Building and Works Committee (BWC) held on 06-01-2020 at Director's Bungalow, Kurnool, Andhra Pradesh.</b>							
	The Proceedings of the meeting (Annexure -1) has been circulated to all members by email. BWC may confirm the Minutes of the Third BWC Meeting.							
	<b>Resolution:</b>							
	The committee resolved to confirm and approved minutes of third BWC meeting held on 6 <sup>th</sup> January 2020							
<b>BWC-4(2020)-02</b>	<b>To Consider the Action Taken Report (ATR) based on the resolutions of decisions of Third BWC meeting held on 6th January 2020</b>							
	<table border="1" style="width: 100%;"> <thead> <tr> <th>Item No</th> <th>Suggested</th> <th>Action Taken</th> </tr> </thead> <tbody> <tr> <td>BWC-3(2019)-02</td> <td>The Committee has noted the action taken report. BWC suggested to use dual plumbing system by utilizing treated water from STP in order to reduce</td> <td>Considered and incorporated</td> </tr> </tbody> </table>		Item No	Suggested	Action Taken	BWC-3(2019)-02	The Committee has noted the action taken report. BWC suggested to use dual plumbing system by utilizing treated water from STP in order to reduce	Considered and incorporated
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**Fourth BWC Meeting of IIITDM, Kurnool**

**20<sup>th</sup> March 2020**

*K. V. Eswaramoorthy*

*D.V.L. Somayajulu*

1/6

	water demand. STP water can also be used for gardening as well as flushing system. It also helps to increase the GRIHA points. The BWC examined the estimate and approved the same subject to fulfillment of following.	
BWC-3(2019)-03	It is seen that VRF AC system is considered in the estimate for a total AC load of around 500 HP. It is understood that before considering the VRF in their proposal, CPWD would have evaluated both VRF & Central AC plant options and concluded to consider the VRF as better option. CPWD may confirm the same.	Communicated to Chief Engineer, CPWD, Vijayawada for consideration
	It is seen that in some buildings, both Manual fire alarm & Automatic fire alarm are considered where as only one is required. Hence the provisions of automatic fire alarm shall only be kept in the estimate.	Communicated to Chief Engineer, CPWD, Vijayawada for consideration
	It is seen that conventional construction technology is considered in costing. Therefore it is understood that the use of new technologies are evaluated and conventional construction is considered as better option. CPWD may confirm the same.	Communicated to Chief Engineer, CPWD, Vijayawada for consideration
	It is seen that site is generally rocky and in excavation rock is expected during foundation. Hence the liberal use of naturally available rock from foundation may be considered in the execution as per its suitability. CPWD to confirm the same.	Communicated to Chief Engineer, CPWD, Vijayawada for consideration
	It is seen that it is mentioned in the estimate that bulk services estimate shall be submitted separately there is no commitment that the bulk services for which the estimate is to be submitted separately shall be well within the total sanctioned cost. CPWD to confirm.	Communicated to Chief Engineer, CPWD, Vijayawada for consideration
BWC-3(2019)-04	a) Committee indicated that CPWD should follow strictly stipulated time for completion of on-going works and settle all the ongoing projects to book the expenditure as part of on-going HEFA project sanction as per the targets committed.	Institute has considered the suggestion and planned to total area to 50458 sqm.

	b) The Committee also advised to utilize available terrain slopes and to store the rain at regular intervals along the valley or gorge in the campus to achieve complete utilization of rain water to recharge the ground water table and the same is to be incorporated by the Architect in the master plan.	Considered and incorporated in Master plan and in the landscape drawings
BWC-3(2019)-05	Committee has noted and approved to take up Landscaping and pavement works around the existing completed buildings.	Work is under progress
BWC-3(2019)-06	6.1 Commissioning of BSNL antenna on the existing building is approved. However, the safety of building in erection shall be ensured by BSNL.	BSNL staff inspected the site and selected the location to erect the tower in this month
	Approval of Audio Visual system in various classroom and seminar hall. It is informed to the committee that as per Govt of India directives, Audio Visual smart class rooms are to be provided where as there is no such component in the estimate. In addition, there is no firm scope of work submitted to BWC. Therefore, the Committee suggested to provide only required network now and to install the AV equipment in future separately.	Communicated to Chief Engineer, CPWD, Vijayawada for consideration

**Resolution:**

The Committee has noted the action taken report. BWC suggested the following for item No 6.1: It is advised to collect certificate of safety from BSNL and ensure that all standards and norms are to be followed during commissioning of the cell antenna.

**BWC-4(2020)-03 To discuss and approve the revised detailed plans and estimates of various new construction projects under HEFA based on the interaction meeting held with Chief Engineer, CPWD and other officials on 24-01-2020 at Vijayawada**

1. In the third BWC meeting under agenda item No BWC-3(2020)-03, BWC has approved the detailed plans and preliminary estimates submitted by CPWD.
2. Subsequently, Chief Engineer, CPWD, Vijayawada has convened meeting with the Architect, EE, CPWD, Kurnool, Director, IIITDM, Kurnool, Consultant engineer along with other officials of M/s Space Matrix, Bangalore on 24-01-2020 to review the plans with reference to their location and conditions onsite.
3. Chief engineer visited the site and inspected various markings (on ground locations) of the buildings and suggested changing of locations of two buildings (Directors residence and faculty quarters) and to draw the cross sections based on new spot levels to be provided by CPWD team to place the buildings in the plan as per their new locations decided. This was done considering the changing topography of the site.

Fourth BWC Meeting of IIITDM, Kurnool

20<sup>th</sup> March 2020

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4. Architect discussed the issues with IAC and CPWD officials and prepared final drawings by incorporating the changes suggested. These changes resulted into an increase of around 126 sqm of the plinth area from the previously approved plan by BWC which is negligible increase. The building wise area changes are given as below:

Building name	Approved Area (Sqm)	Revised Area (Sqm)	Remarks
Academic block	3110	3123.94	Ducts have been closed in the admin building for MEP and AV services
Seminar Hall and Cafeteria Block	2859.60	2804.30	Area reduced due to reduction in corridor area.
Lecture Hall (Block 3A)	5061	4923.40	Area reduced due to change in the size and introduction of additional columns
Laboratory (Block 4A)	5421	5310.20	Reduction in area in lower ground floor.
Laboratory (Block 4B)	2325	2352	Area is slightly increased due to expansion joints and marginal increase in the length
Laboratory (Block 4C)	869	900.80	Area is slightly increased due to cover over ramp and access corridors
Substation Buildings	567	567	No change
Director's Residence	451.61	437.05	Change in the location and topography
Faculty Quarters	2799	2752.58	Change in the location and topography
Hostel Block 8A	10296.78	10304.32	Area is slightly increased due to location of expansion joints and revision in toilet area.
Dining Block	1068	1478.49	Area is increased due to addition of basement floor due to existing spot levels.
<b>Total area</b>	<b>34,827.96</b>	<b>34,954.05</b>	Marginal Increase in area of 126.09 sqm(0.36%).

This slight increase in area is conveyed to the Chief Engineer, CPWD for its effect and the requirement of the revision in the estimates are required or not. Chief Engineer has confirmed, vide email dated 6<sup>th</sup> June 2020, that there is no need to revise the preliminary estimates as the change is very minimal and negligible and the estimates submitted earlier holds good. However, building wise modified plinth areas along with reasons for change are given in Appendix I.

6. During discussions, BWC suggested that

a) In Auditorium & Seminar block, the steel-concrete composite slab system is proposed by the Architect for both first floor and roof of the seminar hall building. Utmost care should be taken in the design and detailing for the composite slab in limit state serviceability, which is vulnerable to human walk induced vibration discomfort in the floor. Waffle slab could be one alternative option instead of steel-concrete composite slab system.

	<p>However, the structural system shall be decided by the CPWD keeping the overall safety and following the existing guidelines and norms.</p> <p>b) Academic Block -4C, the fin walls (refer detail W17) were provided in the periphery of the building for better cross ventilation. It is highly advisable to have a fully clad building to avoid a) rain water coming into the building b) water flooding during heavy rain at floor level c) dust carried wind and d) snake or rat entering the building. All the above will cause detrimental effects to the machine installed in the workshop and also the building will not serve the intended purpose.</p> <p>Consultant has clarified that building 4(C) is a functional workshop floor without any scope for water to get inside. Fins are provided as sunshades for controlling heat gain. These are provided in addition to the windows.</p> <p style="text-align: center;"><b><u>Resolution:</u></b></p> <p>i) Based on the confirmation of CPWD that their earlier preliminary estimates submitted for Rs 133,43,05,800/- (One hundred thirty three crores forty three lakhs five thousand and eight hundred rupees only) including 3% contingencies holds good for the construction of various buildings even after modifications.</p> <p>ii) Based on the fact that even after modifications, there is only negligible of around 126 sqm in over all plinth area.</p> <p>BWC approves the modified drawings in supersession to their earlier approval vide agenda item no BWC-3(2020)-03 and also approves the preliminary estimates for Rs 133,43,05,800/- for the modified drawings.</p> <p>However the suggestions of BWC mentioned at S.No 6 above shall be part and parcel of this approval.</p>
<b>BWC-4(2020)-04</b>	<b>Appraisal of on-going activities as part of Bulk Services</b>
	<p>As part of Bulk services, the works related to rain water drains, Laying of WBM roads, pavement works at required places around completed buildings, fixing of street lights are completed.</p> <p>Trenches for running cable, Cable works, landscaping works are not initiated under this component and will be taken up in the next phase.</p> <p style="text-align: center;"><b><u>Resolution:</u></b></p> <p>Committee noted the contents and suggested to settle all the ongoing projects to book the expenditure as part of on-going HEFA project sanction as per the targets committed.</p>
<b>BWC-4(2020)-05</b>	<b>Appraisal of deposit of funds to CPWD through HEFA for ongoing and new projects.</b>
	<p>Based on the request letters received from CPWD (form 65) and recommendations from Internal Advisory Committee for</p>

	<p>a) Ongoing projects: Rs 6.84 crores released</p> <p>b) New projects: CPWD requested to release funds of Rs. 18.70 crores as per MoU with CPWD. Details are provided in Annexure – 3</p> <p style="text-align: center;"><b>Resolution:</b></p> <p>Committee has noted and approved.</p>
<b>BWC-4(2020)-06</b>	<p><b>Approval of preliminary estimates for dining shed near girls hostel and Pathway from Admin/Academic block to hostels with safety railing.</b></p> <p>The IAC has suggested constructing dining shed near girl's hostel and Pathway from Admin/Academic block to hostels with safety railing. Minutes of IAC are placed in Annexure 4. Committee may consider for approval.</p> <p style="text-align: center;"><b>Resolution:</b></p> <p>Committee approved the proposed additional works of dining shed near girls Hostel 1 and pathway with safety railing from Admin/Academic block to Hostels and suggested that they may be undertaken as sub works for Hostel 1(Dining shed) and Bulk services (Pathway).</p>
<b>BWC-4(2020)-07</b>	<p><b>Any other item with the permission of the Chair: Nil</b></p>

Secretary of BWC conveyed thanks to all the members for sparing their valuable time to attend the 4<sup>th</sup> BWC meeting (physical and through Google Meet) and providing their valuable suggestions. The Committee appreciates the action made by IITDM-Kurnool in the construction activities.

*K.V. Eswaramoorthy*

**Eswaramoorthy K V**  
**Secretary**

*D.V.L.N. Somayajulu*

**Prof. D V L N Somayajulu**  
**Chairperson**

## Appendix I - Building wise modified plinth areas

IIITDM_Kurnool _ Detailed Area Break up				
Building.No	Space Description	AREA AS IN PE GENERAL ABSTRACT SHEET (SQM)	BU AREA for CPWD PE FORMAT	Break UP of Built Up Area / unit (in Sq.m)
<b>NON RESIDENTIAL BUILDINGS</b>				
1	ADMINISTRATION BLOCK			
	AREA AT STILT LEVEL = 355.31		355.31	
	CELLAR			356.15
	LOWER GROUND FLOOR			906.21
	GROUND FLOOR			907.83
	FIRST FLOOR			598.44
	TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	3110	3123.94	2768.63
2	SEMINAR HALL BLOCK			
	AREA AT STILT LEVEL = 415.80 SQM		415.8	
	CELLAR (3.8M HEIGHT F-F)			112.48
	UPPER PLAZA FLOOR			1000.38
	LOWER GROUND FLOOR			553.38
	GROUND FLOOR			722.23
	TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	2,859.6	2,804.3	2,388.5
3A	LECTURE HALL BLOCK- 1 (BLOCK 3A)			
	LIBRARY DOUBLE HEIGHT AREA - 233.79 SQM ( EXCLUDING)			
	TERRACE AREA = 157.21 SQM ( EXCLUDING)			
	LOWER GROUND FLOOR			977.4
	GROUND FLOOR			1351.80
	FIRST FLOOR			1303.90
	SECOND FLOOR			1290.30
TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	5,061.0	4,923.4	4,923.4	
4A	LABORATORY BLOCKS - 1 (BLOCK - 4A)			
	TERRACE AREA = 96.45SQM ( EXCLUDING)			
	LOWER GROUND FLOOR (PUMP ROOM EXCLUDED)			1221.50
	GROUND FLOOR			1494.8
	FIRST FLOOR			1281.2
	SECOND FLOOR			1312.7
TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	5,421.0	5,310.2	5,310.2	
4B	LABORATORY BLOCK - 2 (BLOCK - 4B)			
	TERRACE AREA = 184.75SQM ( EXCLUDING)			
	LOWER GROUND FLOOR			1133.6
	GROUND FLOOR			1092.8
	CONNECTING BRIDGE BETWEEN 4A & 4B			125.58
TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	2,325.0	2,352.0	2,352.0	
4C	LABORATORY BLOCK - 3 (BLOCK - 4C)			
	Mechanical Workshop			840.5
	Entrance corridor			60.32
	TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	869.0	900.8	900.8
Misc	SUBSTATION BUILDINGS	567.0	567.0	
<b>TOTAL AREA OF NON-RESIDENTIAL BUILDINGS(SQ.M)</b>		<b>20,212.6</b>	<b>19,981.6</b>	<b>18,648.5</b>

Fourth BWC Meeting of IIITDM, Kurnool

20<sup>th</sup> March 2020

*B. V. Bhargava*

*D. V. Anand*

A-1/3

### IIITDM\_Kurnool \_ Detailed Area Break up

Building.No	Space Description	AREA AS IN PE GENERAL ABSTRACT SHEET (SQM)	BU AREA for CPWD PE FORMAT	Break UP of Built Up Area / unit (in Sq.m)
<b>NON RESIDENTIAL BUILDINGS</b>				
1	<b>ADMINISTRATION BLOCK</b>			
	AREA AT STILT LEVEL = 355.31		355.31	
	CELLAR			356.15
	LOWER GROUND FLOOR			906.21
	GROUND FLOOR			907.83
	FIRST FLOOR			598.44
	<b>TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)</b>	<b>3110</b>	<b>3123.94</b>	<b>2768.63</b>
2	<b>SEMINAR HALL BLOCK</b>			
	AREA AT STILT LEVEL = 415.80 SQM		415.8	
	CELLAR (3.8M HEIGHT F-F)			112.48
	UPPER PLAZA FLOOR			1000.38
	LOWER GROUND FLOOR			553.38
	GROUND FLOOR			722.23
	<b>TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)</b>	<b>2,859.6</b>	<b>2,804.3</b>	<b>2,388.5</b>
3A	<b>LECTURE HALL BLOCK- 1 (BLOCK 3A)</b>			
	LIBRARY DOUBLE HEIGHT AREA = 233.79 SQM ( EXCLUDING )			
	TERRACE AREA = 157.21 SQM ( EXCLUDING )			
	LOWER GROUND FLOOR			977.4
	GROUND FLOOR			1351.80
	FIRST FLOOR			1303.90
	SECOND FLOOR			1290.30
<b>TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)</b>	<b>5,061.0</b>	<b>4,923.4</b>	<b>4,923.4</b>	
4A	<b>LABORATORY BLOCKS - 1 (BLOCK - 4A)</b>			
	TERRACE AREA = 96.45SQM ( EXCLUDING )			
	LOWER GROUND FLOOR (PUMP ROOM EXCLUDED)			1221.50
	GROUND FLOOR			1494.8
	FIRST FLOOR			1281.2
SECOND FLOOR			1312.7	
<b>TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)</b>	<b>5,421.0</b>	<b>5,310.2</b>	<b>5,310.2</b>	
4B	<b>LABORATORY BLOCK - 2 (BLOCK - 4B)</b>			
	TERRACE AREA = 184.75SQM ( EXCLUDING )			
	LOWER GROUND FLOOR			1133.6
	GROUND FLOOR			1092.8
	CONNECTING BRIDGE BETWEEN 4A & 4B			125.58
<b>TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)</b>	<b>2,325.0</b>	<b>2,352.0</b>	<b>2,352.0</b>	
4C	<b>LABORATORY BLOCK - 3 (BLOCK - 4C)</b>			
	Mechanical Workshop			840.5
	Entrance corridor			60.32
	<b>TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)</b>	<b>869.0</b>	<b>900.8</b>	<b>900.8</b>
Misc	<b>SUBSTATION BUILDINGS</b>	<b>567.0</b>	<b>567.0</b>	
<b>TOTAL AREA OF NON-RESIDENTIAL BUILDINGS(SQ.M)</b>		<b>20,212.6</b>	<b>19,981.6</b>	<b>18,643.5</b>
<b>RESIDENTIAL BUILDINGS</b>				
	<b>DIRECTOR'S RESIDENCE</b>			

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RESIDENTIAL BUILDINGS				
5	DIRECTOR'S RESIDENCE			
	TERRACE AREA = 20.7SQM ( EXCLUDING)			
	PARKING AREA = 42.9SQM		43	
	SERVICES G FLOOR			41
	GROUND FLOOR			175.15
	FIRST FLOOR			177.70
	TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	451.61	437.05	394.15
6	FACULTY HOUSING			
	STILT AREA = 303.64 SQM (SUBJECT TO EXCAVATION / SITE CONDITIONS)		304	
	TERRACE =20.7( EXCLUDING)			
	CELLAR FLOOR			93.99
	TYPICAL FLOOR*5FLOORS			2354.95
	TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	2799.00	2752.58	2448.94
8A	HOSTEL BLOCK - 8A (AREA IN Sq mts)			
	STILT AREA = 487.15		487.15	
	TERRACE AREA ( EXCLUDED)			
	Lower ground floor			56.92
	Ground floor			1011.91
	First floor			986.62
	Second floor			985.35
	Third floor			958.87
	Fourth floor			984.98
	Fifth floor			951.25
	Sixth floor			984.79
	Seventh floor			958.84
	Eight floor			987.17
	Ninth floor			950.47
	TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	10296.78	10304.32	9817.17
9	DINING BLOCK (BL4 EXTENSION) PHASE 2 DEVELOPMENT			
	TERRACE AREA = 70.4 SQM ( EXCLUDING)			
	GROUND FLOOR			528.17
	FIRST FLOOR			528.17
	BASEMENT			422.15
TOTAL BUILT-UP AREA (WITH CIRCULATION / COMMON AREAS)	1068	1478.49	1478.49	
<b>TOTAL AREA OF RESIDENTIAL BUILDINGS</b>		<b>14,615.4</b>	<b>14,972.4</b>	<b>14,138.8</b>
<b>TOTAL AREA OF NON.R BUILDINGS+RESIDENTIAL .B(SQ.M)</b>		<b>34,827.96</b>	<b>34,954.05</b>	<b>32,782.25</b>