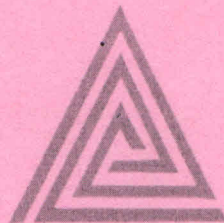


**MINUTES OF FIRST BUILDING & WORKS
COMMITTEE MEETING HELD ON 22nd JUNE, 2017**

AND

**DULY CONFIRMED IN
THIRD BUILDING & WORKS COMMITTEE MEETING
HELD ON 29th NOVEMBER, 2017**



SCHOOL OF PLANNING AND ARCHITECTURE

4, Block B, I.P.Estate, New Delhi-110002

Phone : 011-23702382 Fax : 011-23702383



SCHOOL OF PLANNING AND ARCHITECTURE

Ref.No.CCC/01BWC/SPA/17

06th July, 2017

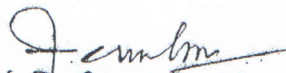
TO ALL MEMBERS OF BUILDING & WORKS COMMITTEE OF SCHOOL OF
PLANNING AND ARCHITECTURE, NEW DELHI

SUBJECT: MINUTES OF 01ST BUILDING & WORKS COMMITTEE MEETING HELD
ON THURSDAY, 22ND JUNE, 2017 AT 11.00 A.M.

Sir/Madam,

I am directed to forward herewith the Minutes of the 01st Meeting of Building & Works Committee of School of Planning and Architecture, New Delhi, held on Thursday, 22nd June, 2017 at 11.00 a.m. in the Director's Room of SPA. Comments on the Minutes, if any may please be forwarded to the undersigned within two week's time.

Yours faithfully,


(Prof. Dr. Sewa Ram)
Registrar – Secretary

| | | | |
|----|---|----|--|
| 1. | Prof.Chetan Vaidya, Director School of Planning and Architecture, New Delhi – 110002 | 5. | Shri Gajendra Kumar CPWD, Office of Superintending Engineer (Civil), Delhi Central Circle V, East Block-IV, Level-IV, R.K.Puram, New Delhi-110066 |
| 2. | Shri R. Subrahmanyam, IAS, Additional Secretary (TE), Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi-110001 | 6. | Shri B. R. Paśi CPWD (Electrical), East Block-III, Level-VII, R.K.Puram, New Delhi-110066 |
| 3. | Prof. Dr. Nitin Dindorkar Deptt. of Civil Engineering, Maulana Azad National Institute of Technology,Bhopal-462016 | 7. | Prof. Dr. Sewa Ram Registrar - Secretary School of Planning-and Architecture, New Delhi-110002 |
| | | | Copy to:- |
| 4. | Prof. Dr. Virendra Paul Professor of BEM, School of Planning and Architecture, New Delhi-110002 | 8. | Dr. B.K. Bhadri Assistant Educational Adviser (DL) Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi-110001 |
| | | | |

MINUTES OF 01st BUILDING AND WORKS COMMITTEE MEETING OF SPA, NEW DELHI, HELD ON THURSDAY, 22ND JUNE, 2017 AT 11.00 AM IN THE DIRECTOR'S ROOM OF THE SCHOOL.

Present:

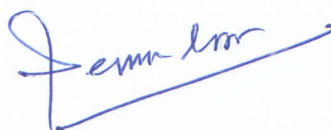
- | | | |
|----|---|----------------------|
| 1. | Prof. Chetan Vaidya, Director, | Chairman |
| 2. | Dr. B. K. Bhadri, AEA(DL), MHRD (in place of Shri R. Subrahmanyam) | Member |
| 3. | Prof. Dr. Nitin Dindorkar, MANIT, Bhopal | Member |
| 4. | Shri Gajendra Kumar, CPWD(Civil) | Member |
| 5. | Shri B. R. Pasi, CPWD(Electrical) | Member |
| 6. | Prof. Dr. V. K. Paul, HOD-BEM | Member |
| 7. | Shri Surinder Kumar Dogra, AE | Special Invitee |
| 8. | Prof. Dr. Sewa Ram | Registrar- secretary |

01BWC ITEM NO. 1: TO CONFIRM THE MINUTES OF 41st MEETING OF THE BUILDING COMMITTEE OF THE SCHOOL HELD ON 27th SEPTEMBER, 2016.

The BC was apprised that the Minutes of the 41st Meeting of Building Committee of the School held on 27th September, 2016 were circulated to all members of the Committee on 31st October, 2016 with the request to forward their comments. Comments were received from Dr. B. K. Bhadri, AEA, (DL), MHRD vide Letter No. 3-16/2016-TS.VI dated 11th November, 2016.

The member from MHRD sought an explanation with regard to 41 BC Item No. 13 viz. additions and alterations in the rooms of the faculty in Architecture building which was placed before BC for ex-post facto recommendation. The same was recommended by 41 BC at its Meeting held on 27th September, 2016. However, when the item was placed before Finance Committee at its Meeting held on 29th September, 2016, the MHRD sought clarification on this item. Therefore, the matter was again taken up in 01 BWC and it was apprised that since the proposed budget estimate was Rs. 9,15,783/- and tendered amount Rs.10,80,624/-, the technical approval was obtained from the Director. However, on completion of the work, the expenditure escalated to Rs. 11,75,989/-. Therefore, the item was placed before the Building Committee Meeting for ex-post facto recommendation for the increased expenditure above Rs. 10,80,624/-. However the detailed clarification on the item is enclosed as

Appendix - 01 BWC/I.



The comments received from MHRD were discussed and after detailed deliberations, the Minutes of 41st BC were confirmed subject to incorporation of observations received from MHRD.

01BWC ITEM NO. 2: TO REPORT ACTIONS TAKEN ON THE MINUTES OF THE 41st MEETING OF THE BUILDING COMMITTEE OF THE SCHOOL HELD ON 27th SEPTEMBER, 2016

It was apprised to BC that the 41 BC Item Nos. 10, 11, 12 and 13 were recommended by Building Committee at its Meeting held on 27th September, 2016. However these items were placed before FC at its Meeting held on 29th September, 2016 under 72 FC Item No. 5 (Sl.No.3 to 8). These items were not taken up for discussion as they did not contain adequate information.

41 BC Item No. 11 viz., white washing, distemping and painting work in boys and girls hostel at Maharani Bagh Complex was placed before 01 BWC (Item No. 3, Sl.No. 3.3.1) with detailed specifications and the same was recommended by BWC.

The members suggested that 41 BC Item No. 7, viz., proposal for changing of water heating system into solar in the hostels of School of Planning and Architecture, 41 BC Item No. 8, viz., proposal for commissioning of grid interacted solar power plant at the roof top of School of Planning and Architecture and 41 BC Item No. 9, viz., upgradation of electrical fixtures in the street lighting and circulation area of the Maharani Bagh Residential Complex of SPA may be combined together with a revised cost estimate and a single comprehensive tender may be framed. The work may be assigned to CPWD electrical division for executing the work.

BWC recommended the same in principle. It was recommended that CPWD would determine the scope of work and propose cost estimate after examining the buildings. The proposal, as received from CPWD shall be placed before the Finance Committee.

With the above observations, the Committee took note of actions taken on 41st BC Meeting held on 27th September, 2017.



01BWC ITEM NO. 3: TO CONSIDER PROPOSED WORKS RELATED TO THE REPAIR AND MAINTENANCE OF PLANNING BUILDING, ARCHITECTURE BUILDING AND RESIDENTIAL COMPLEX IN MAHARANI BAGH.

01 BWC considered the various proposals under this item and after detailed deliberations recommended the following:

- 3.1.1. White washing, Distempering and Painting in girls hostel (ITO) of Planning Building of SPA, New Delhi (interior and exterior) with the estimated cost of Rs. 13,83,261/-. BWC further suggested that oil bound distemper may be substituted by acrylic distemper.
- 3.1.3. Renovation and upgradation of laboratory, library and P.A's office of the Architectural Conservation Department in the Planning Building with the estimated cost of Rs. 5,74,542/-. **(Appendix – 01 BWC/II)**
- 3.2.1. Miscellaneous repair works at Architecture and Planning buildings with an estimated cost of Rs. 3,50,000/-. **(Appendix – 01 BWC/III)**
- 3.3.1. White washing, painting and distempering in Maharani Bagh Hostel at MB Complex, SPA, New Delhi with an estimated cost of Rs. 21,42,267/-. A part of work from 3.3.2 was also recommended by BC i.e. renovation of shafts (part work of shafts) wherever whitewashing work has been undertaken in the M.B. Hostel. The estimated cost for the same will be Rs. 7.23 lakhs. Therefore, the total estimated cost works out to 28,65,577/-.

BWC was further apprised that white washing, painting and distempering in the hostels were done in 2015. Since the walls have become shabby and damp, it needs white washing, distempering and painting.

The works pertaining to Items 3.1.1, 3.3.1 and part work of 3.3.2 should be combined together and will be considered and carried out as single tender to be awarded to single agency. The total estimated cost of combined items, 3.1.1, 3.3.1 and part work of 3.3.2 works out to Rs. 42,48,838/-. The detailed estimate is enclosed as **Appendix – 01 BWC/IV**.

The BWC suggested that:

- (i) The School should follow the GFR Rules 2017. Henceforth, all works undertaken by the School (construction, renovation, repair etc.) should be done through e-tendering./GFR Rules.
- (ii) CVC Guidelines should be complied with while undertaking the construction work etc.



01BWC ITEM NO. 4: APPOINTMENT OF JUNIOR ENGINEER (CIVIL & ELECTRICAL) IN PLACE OF CONSULTANT ENGINEER (CIVIL AND ELECTRICAL)

The item was deferred. It was suggested that the current arrangement may be continued with wider circulation to solicit suitable candidates.

01BWC ITEM NO. 5: PROGRESS OF CONSTRUCTION OF BOUNDARY WALL AT THE VASANT KUNJ CAMPUS

BWC noted the progress of construction of boundary wall at the Vasant Kunj Campus. It was apprised that over 95% of work has been completed.

01BWC ITEM NO. 6: REPORTING OF THE APPROVAL OF DPR OF THE NEW CAMPUS AT VASANT KUNJ

BWC noted the Report.

01BWC ITEM NO. 7: ASSIGNING WORK OF NEW CAMPUS AT VASANT KUNJ TO THE CPWD.

Noted by BWC.

01BWC ITEM NO. 8: RELEASE OF RS. 20 LAKHS TO CPWD TOWARDS INITIAL WORK AT THE VASANT KUNJ CAMPUS CONSTRUCTION

BWC noted the release of Rs. 20 lakhs to CPWD towards initial work at the Vasant Kunj Campus construction.

01BWC ITEM NO. 9: COMMUNICATING REQUIREMENTS OF THE NEW CAMPUS PROJECT TO THE CPWD

Noted by BWC.



01BWC ITEM NO. 10: CONSTITUTING PROJECT MONITORING COMMITTEE (PMC) FOR THE NEW CAMPUS PROJECT AT VASANT KUNJ.

It was brought to the notice of BWC that it is proposed to constitute a Project Monitoring Committee (PMC) with the following members for internal consultations and advising the Director as well as other bodies of the School with regard to decisions to be taken from time to time for the New Campus Project at Vasant Kunj.

The following members were proposed for the Project Monitoring Committee (PMC):

1. Prof. Dr. P.S.N. Rao, : Member
Professor of Housing
2. Shri D. S. Sachdeva, : Member
former Director General, CPWD
3. Prof. Dr. Mandeep Singh, : Member
Dean & Professor of Architecture
4. Prof. Dr. Virendra Kumar Paul, : Member-Secretary
Professor of BEM and OSD (Vasant Kunj Project)

The BWC considered the matter and after detailed deliberations recommended the Project Monitoring Committee as proposed. Further, the Committee also recommended for payment of honorarium of Rs. 5000/- per meeting upto a maximum ceiling (honorarium) of Rs. 15,000/- per month i.e. not more than three meetings in a month plus local conveyance to Shri D.S. Sachdeva, who is an external member of PMC.

01BWC ITEM NO. 11: MEMORANDUM OF UNDERSTANDING BETWEEN SPA AND CPWD

The BWC considered the MoU signed between SPA and CPWD (**Appendix – 01 BWC/V**) and after detailed deliberations recommended the same with the following suggestions. There should be provision in the MoU for:

- a) Force Majeure
- b) Liquidation charges and damages
- c) Arbitration Clause with jurisdiction in Delhi.

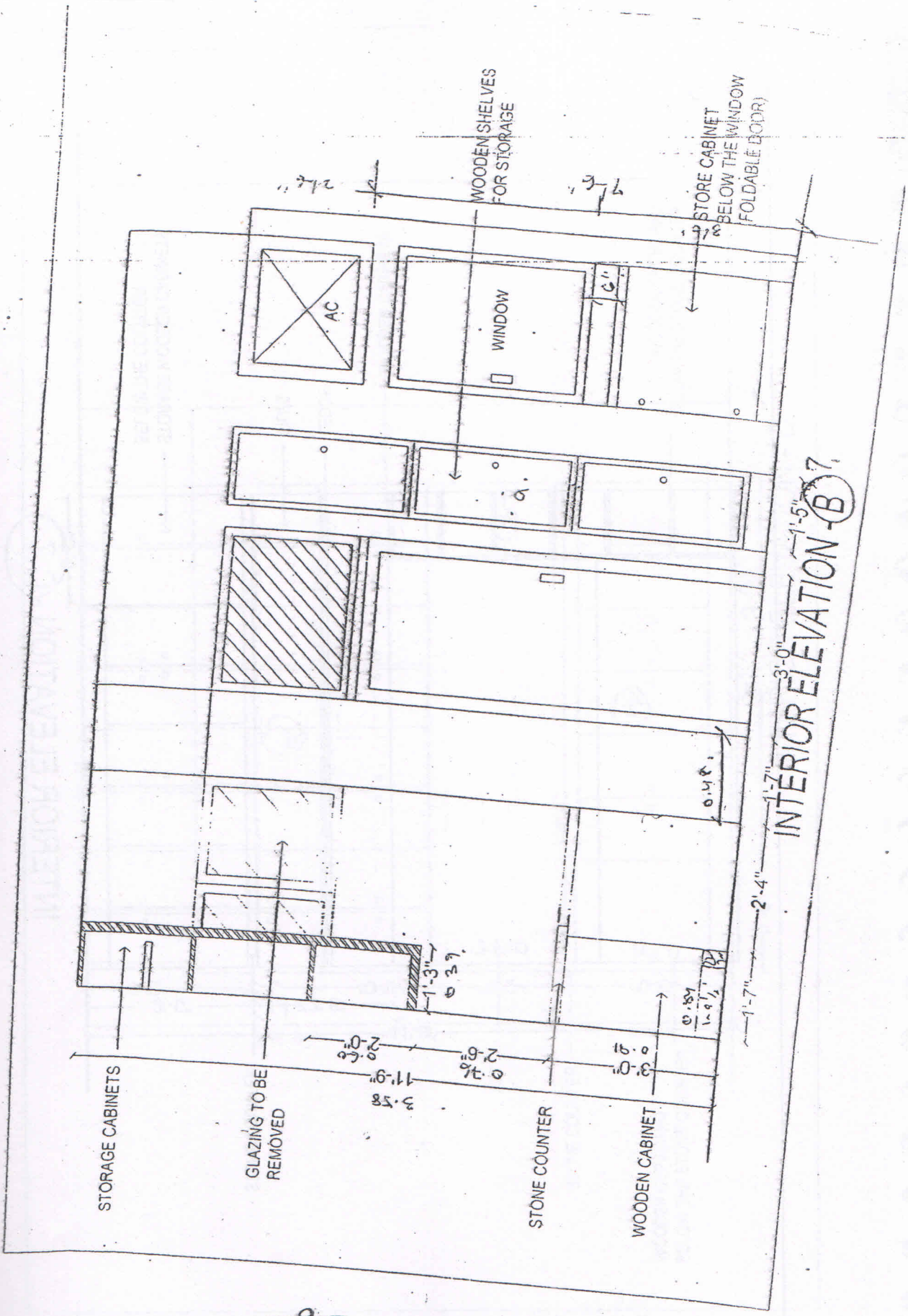
It was further mentioned that the MoU between SPA-D and CPWD should compare its clauses with that of SPA, Vijayawada and CPWD.

The Meeting ended with Thanks to the Chair.

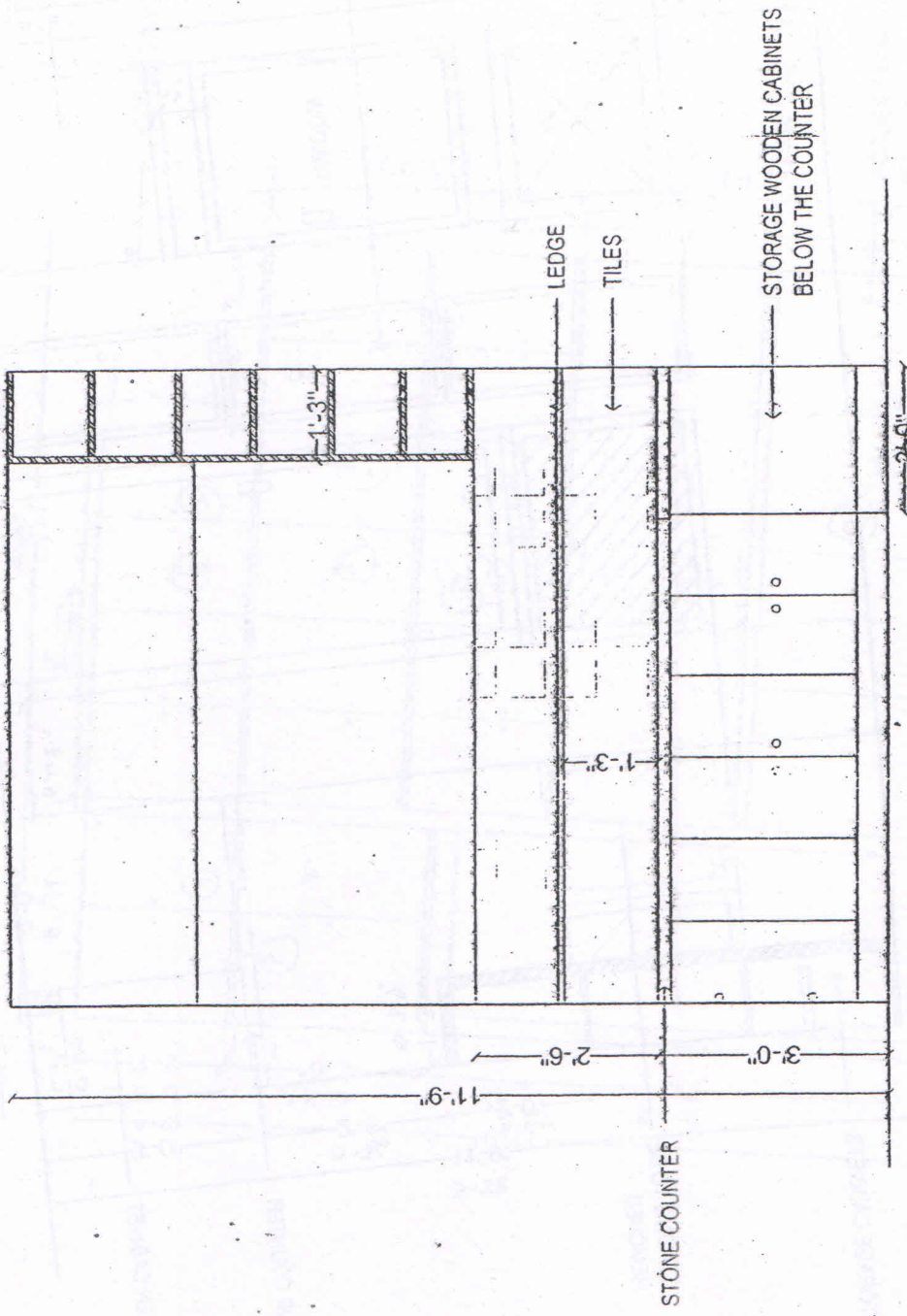
J. S. Sachdeva

Name of Work : - Additions and alterations in the rooms of the faculty in Architecture building.

1. **Head of Account:** - A/R & M/O to buildings during 2015-16
2. **History of Work:** - There is a constant demand of the faculty members in the Architecture building that the space /Rooms provided to them needs up gradation and renovation in respect of storage space and otherwise.
3. **Scope of Work:** - Provision has been made in the estimate for erecting wooden cupboards with locking arrangements, changing of the front brick walls with 12 mm thick toughened glass partition fixed in wooden frames change of soft boards, change of flush doors , French sprit polish on wood work and OBD on the walls of the rooms.
4. **Date of Awarding of work:** - 2 sept. 2015
5. **Date of Completion:** - 02 Nov. 2015
6. **Total Estimated Cost of Work:** - 9, 15,783/-
7. **Total Approved budget (tender cost) :-** 10, 80, 624/-
8. **Date of Approval by BC/FC/EC :-** The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 10 June 2015.
9. **Mode of call of tender:** - Open tender through Newspaper advisement (Hindi and English) and SPA website.
10. **Award of Tender:** - Tender was awarded to Lowest contractor M/S Rajinder Kumar at their quoted rate of 18 % above the estimated cost.
11. **Name of Under supervision of work done:** - Prof. Manoj Mathur (CMC), Sh. P.K. Mathur (consultant Engineer-civil) and Sh. Surinder Kumar (Assistant Engineer civil).
12. **Guideline and Specifications used for the work done:** - This works was completed in accordance with GFR/CPWD guideline and Specification.
13. **Handing Over work done to:** - H.O.D. Architecture.
14. **Deviation in approved budget:** - 95, 365/- that is 8.82 % above the tendered amount.
15. **Reason of Deviation:** - while executing the work it has been revealed that there is a shortage of space for the faculty and it needs augmentation for having more space at least for one faculty member and as such provisions have been made for six faculty members in place of the existing five by making alterations in the existing conference hall and in the existing rooms.
16. **Approval of cost run over:** - The case was placed in 41 building committee meeting held on 27th sept. 2016 for ex-post facto approval of the budget estimate of Rs. 11,75,989/- and BC considered the items and after detail deliberation had given ex-post facto recommendation for the budget estimate of Rs. 11,75,989/- However, clarification on this item was sought by MHRD. However the same is being clarified as required by MHRD.
17. **Status of work:** The work was completed as per the terms and conditions of the tender and as per CPWD specification and in time.



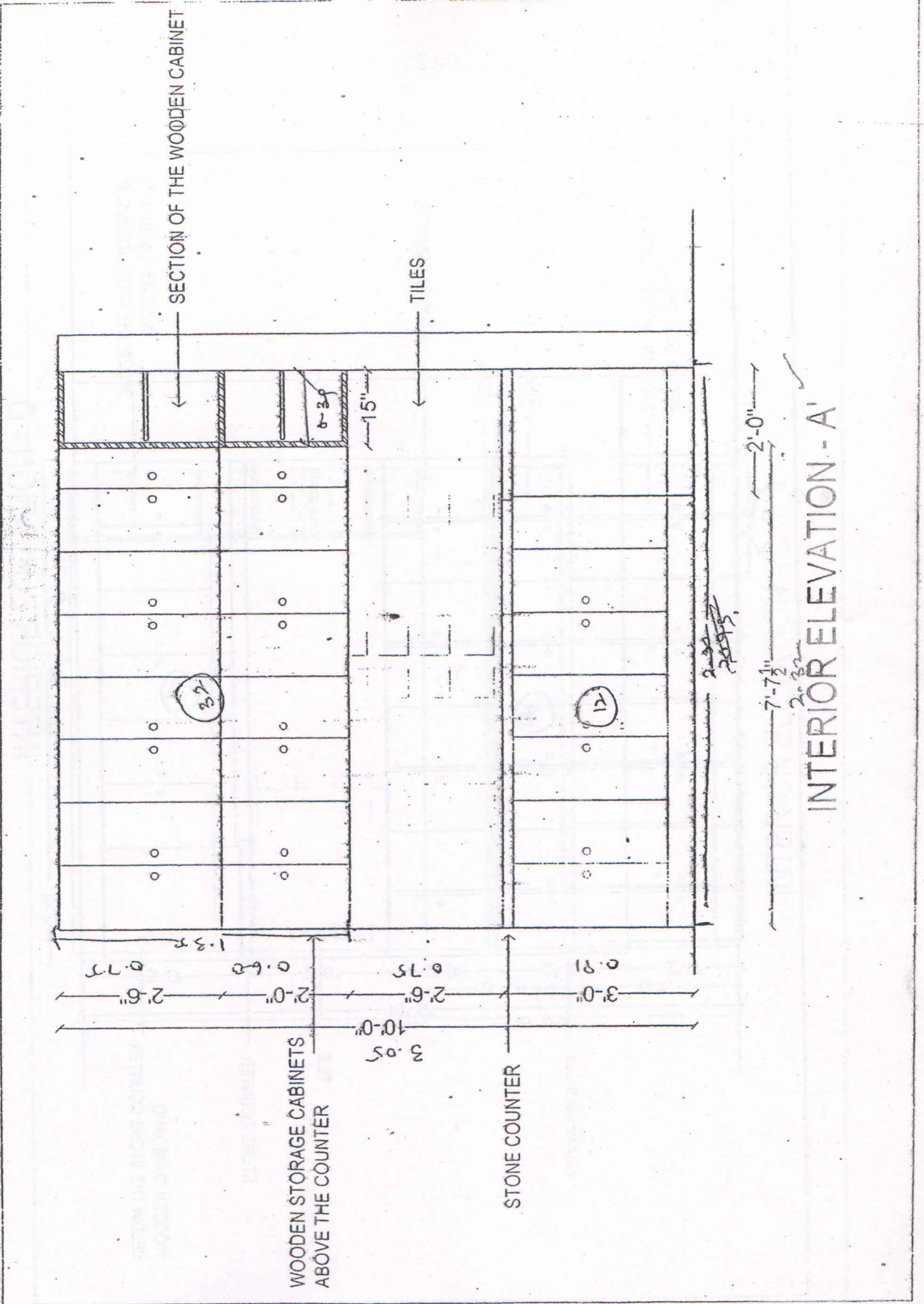
INTERIOR ELEVATION (B)



INTERIOR ELEVATION - C 7.

10
28

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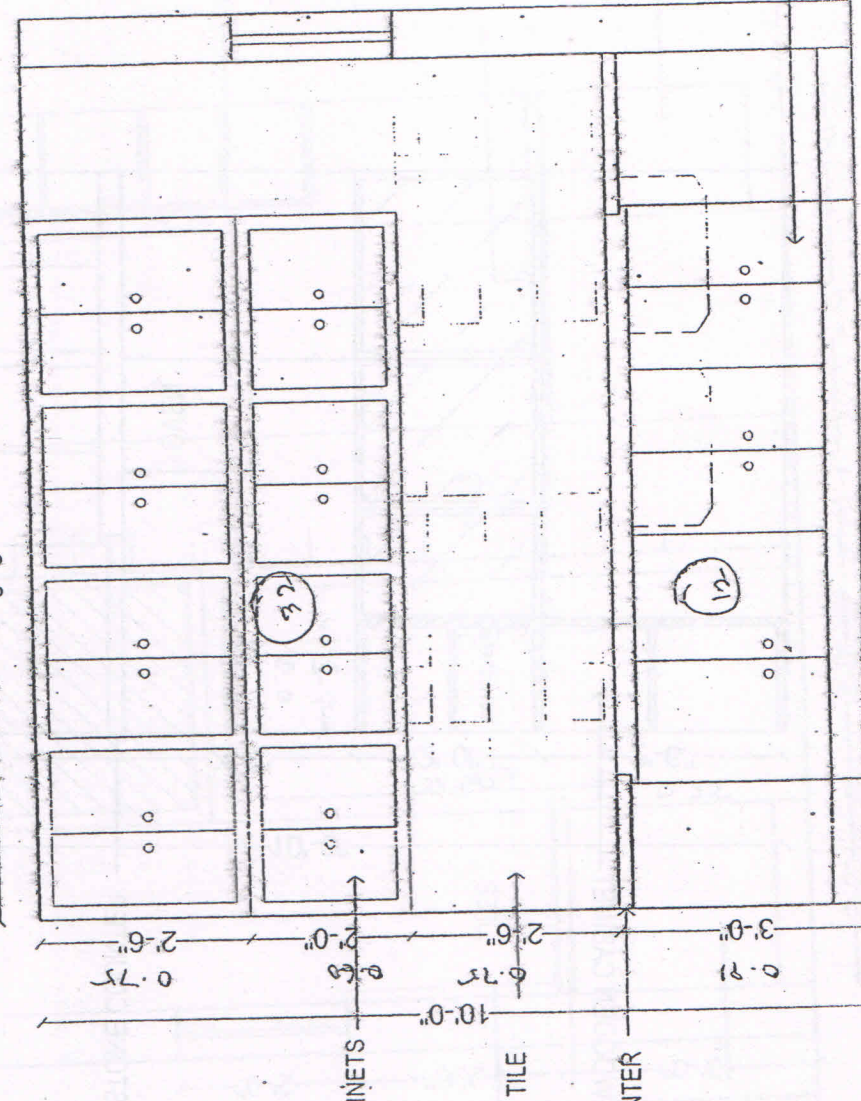


INTERIOR ELEVATION - A

INTERIOR ELEVATION - C

BELOW THE TOP LINE
CHANGES WOODEN CABINETS

2.59
8'-6"



0.75
2'-6"

0.6
2'-0"

0.75
2'-6"

10'-0"

0.75
2'-6"

3'-0"

4'-0"

8'-6" ± 2.59

1'-6"

3'-0"

4'-0"

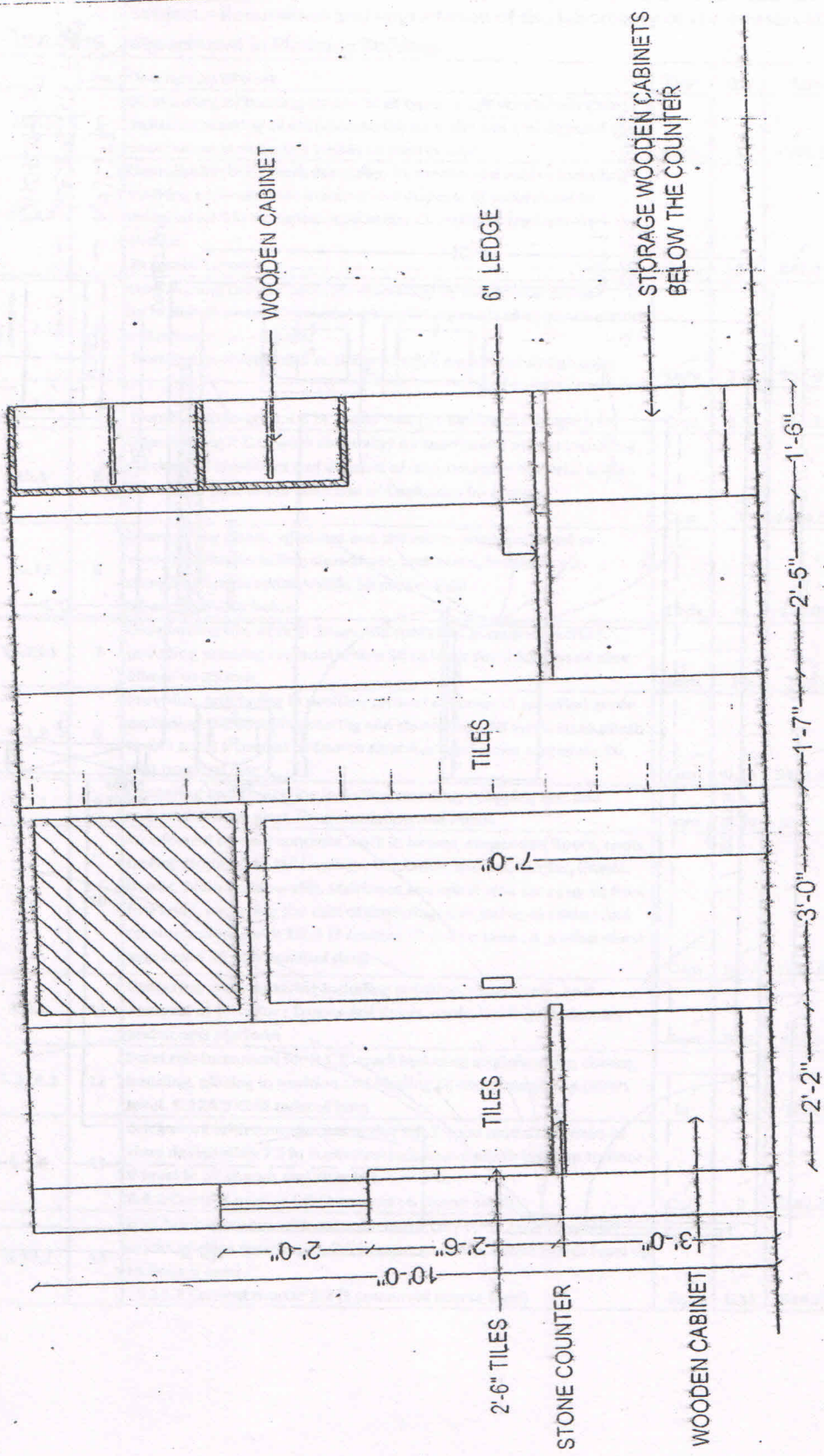
WOODEN DOOR COVER
THE AREA BELOW WASH BASIN

EXISTING WOODEN CABINETS

TILE

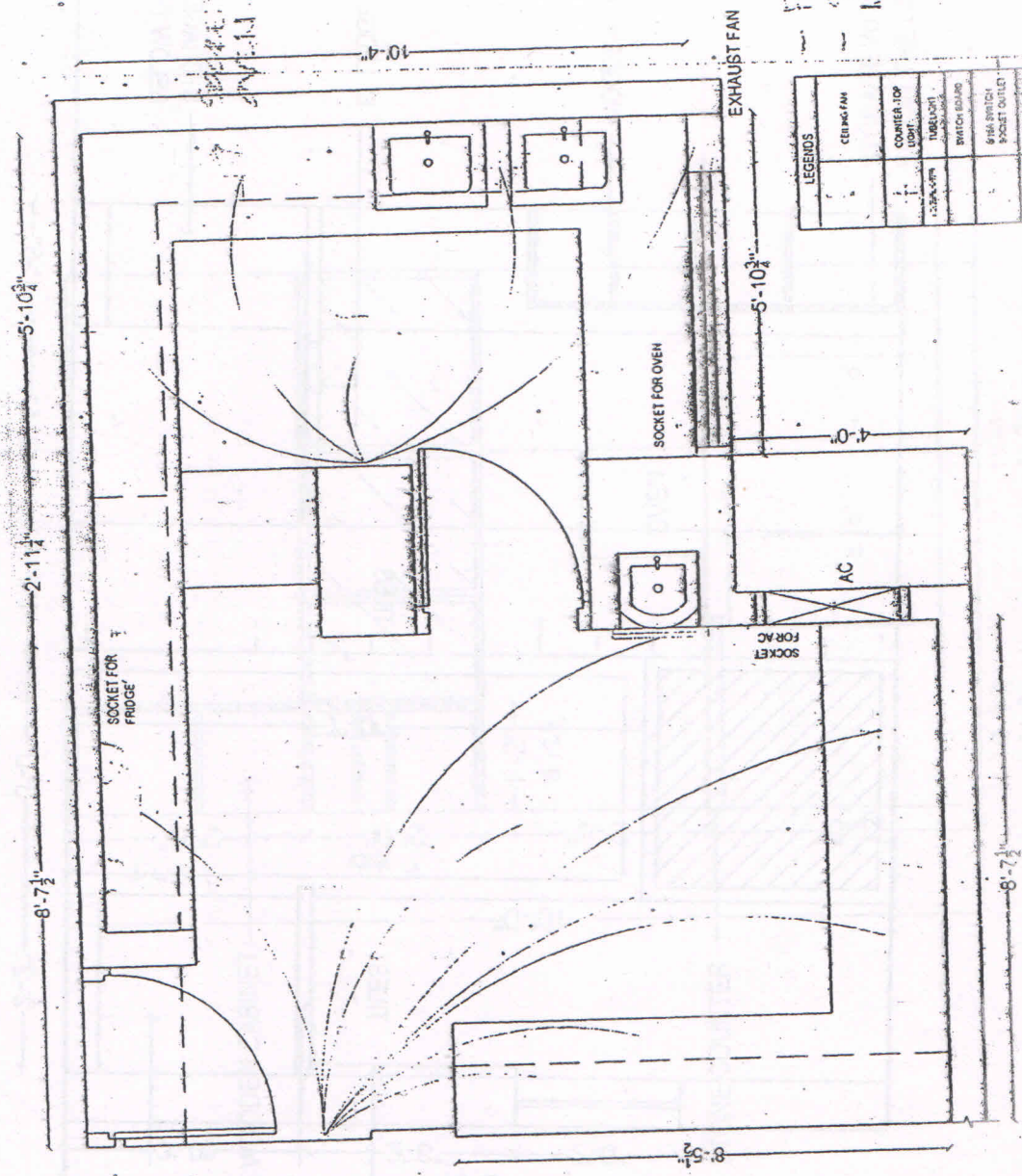
STONE COUNTER

INTERIOR ELEVATION - B'



INTERIOR ELEVATION - D' ✓

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Handwritten notes: "2015/11/17" and "SOCKET FOR MICROSCOPE".

| LEGENDS | |
|---------|-----------------------------|
| | CEILING FAN |
| | COUNTER TOP LIGHT |
| | TUBELIGHT |
| | SWITCH BOARD |
| | 6 WIRE SWITCH SOCKET OUTLET |
| | EXHAUST FAN |

Handwritten numbers: "16" and "44".

ELECTRICAL DRAWING OF LABORATORY

SCHEDULE OF WORK

| Subject:- Renovation and upgradation of the labortary of the conservation department in Planning Building. | | | | | |
|--|---|------|------|---------|----------|
| DSR-2016 | | | | | |
| S.No. | Description of work | Unit | Qty | Rate | Amount |
| 15.52 | 1 Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead. | Each | 1 | 391.2 | 391.20 |
| 15.7.4 | 2 Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar | Cum | 3 | 842.75 | 2528.25 |
| 15.2.1 | 3 Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (l/c equivalent design mix) | Cum | 1.5 | 997.05 | 1495.58 |
| 15.2.2 | 4 Nominal concrete 1:4:8 or leaner mix (l/c equivalent design mix) | Cum | 1.5 | 615.15 | 922.73 |
| 15.3 | 5 Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge. | Cum | 2 | 1454.55 | 2909.10 |
| 15.12 | 6 Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 m2 or below | Each | 4 | 157.85 | 631.40 |
| 15.23.1 | 7 Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 m lead For thickness of tiles 10mm to 25 mm | Sqm | 10 | 31.55 | 315.50 |
| 4.1.3 | 8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 1 cement :2 Coarse sand:4 graded stone aggregate 20 mm nominal size | Cum | 0.18 | 5481.95 | 986.75 |
| 5.9.1 | 9 Centering and shuttering including strutting, propping etc. and removal offrom work for :Foundation and Plinth | Sqm | 1.64 | 193.95 | 318.08 |
| 5.3 | 10 Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). | Cum | 0.67 | 7390.80 | 4951.34 |
| 5.9.3 | 11 Centering and shuttering including strutting, ropping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform | Sqm | 8.26 | 422.30 | 3488.20 |
| 5.22A.3 | 12 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. 5.22A.3 Cold twisted bars | kg | 61 | 56.60 | 3452.60 |
| 6.4.2 | 13 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : 6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand) | Cum | 3 | 5582.85 | 16748.55 |
| 6.13.2 | 14 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level . 6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand) | Sqm | 6.11 | 684.20 | 4180.46 |

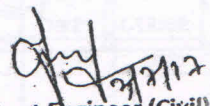
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|----------------------------|----|--|-------|-------|----------|-----------|
| 8.2.2.1 | 15 | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab upto 0.50 sqm | Sqm | 6.89 | 3351.95 | 23094.94 |
| 8.3.2 | 16 | Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. 8.3.2 Granite work | Metre | 13.6 | 245.70 | 3351.35 |
| 8.5 | 17 | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete. | Each | 2 | 427.95 | 855.90 |
| 9.1.3 | 18 | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.3 Kiln seasoned and chemically treated hollock wood | Cum | 0.189 | 54930.25 | 10381.82 |
| Analyzed on basis of DSR - | 19 | Providing and fixing wooden shelf consisting of 19mm thick water proof board | Sqm | 29.13 | 8357.86 | 243464.46 |
| 9.2.1.1 | 20 | Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross-bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws | Sqm | 3.84 | 1559.75 | 5989.44 |
| 11.36 | 21 | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete | Sqm | 20.1 | 744.80 | 14970.48 |
| 11.37 | 22 | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc, complete. | Sqm | 20.8 | 688.35 | 14338.33 |
| 17.11.2 | 23 | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required 17.11.2 Size 600x450x200 mm | Each | 2 | 3211.45 | 6422.90 |
| 17.28.2.1 | 24 | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia | Each | 2 | 73.25 | 146.50 |
| 17.29 | 25 | Providing and fixing 100 mm sand cast Iron grating for gully trap. | Each | 1 | 29.25 | 29.25 |
| 18.10.1 | 26 | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, l/c cutting and making good the walls etc 15mm nominal bore | Metre | 15 | 186.40 | 2796.00 |

| | | | | | | |
|----------|----|---|-------|-------|---------|----------|
| 12.41 | 27 | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter | Metre | 15 | 236.35 | 3545.25 |
| 18.16 | 28 | Providing and fixing brass stop cock of approved quality 15mm nominal bore | Each | 2 | 260.10 | 520.20 |
| 18.21.2 | 29 | Providing and fixing unplasticised PVC connection pipe with brass unions : 45 cm long 15 mm nominal bore | Each | 2 | 67.80 | 135.60 |
| 21.1.1 | 30 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for paneling and dash fasteners to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | Kg | 25 | 355.20 | 8880.00 |
| 21.1.2.1 | 31 | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing offittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | Kg | 20 | 415.05 | 8301.00 |
| 21.3.2 | 32 | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness | Sqm | 10 | 1003.95 | 10039.50 |
| 14.1.1 | 33 | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1 cement : 4 fine sand) | Sqm | 15 | 264.80 | 3972.00 |
| 14.46 | 34 | Removing dry or oil bound distemper, water-proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. | Sqm | 45 | 10.80 | 486.00 |
| 13.26 | 35 | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete | Sqm | 45 | 118.70 | 5341.50 |
| 13.41.1 | 36 | Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : 13.41.1 New work (two or more coats) over and including water tinna- ble priming coat with cement primer | Sqm | 45 | 93.70 | 4216.50 |
| 13.62.1 | 37 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture | Sqm | 95.4 | 112.30 | 10716.79 |
| 9.127.1 | 38 | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS :2046 Type S, including cost of adhesive of approved quality. 1.5 mm thick | Sqm | 30.09 | 837.40 | 25197.37 |
| 13.57.1 | 39 | Painting with oil type wood preservative of approved brand and manufacture : New work (two or more coats) | Sqm | 70 | 32.20 | 2254.00 |

| | | | | | | |
|---------------------------------|----|---|------|------|----------|----------|
| Analyzed on basis of DSR - | 40 | Providing and fixing of storage cabinet consisting of 19 mm thick water proof non decorative type core of Block board construction with frame of first class shard wood and well mached-commercial ply veneering with vertical grains of cross bands and faces. The cabinet shall consist of shelves, Shutters/c beading, lipping, etc and fixed with necessary hings, brass handles, magnetic catchers aluminum tower bolts, supporting frame and lamination with glazed laminate to give proper finsh. In the room of Prof. Priyaleen Singh. | sqm | 4.69 | 6968.56 | 32682.55 |
| Analyzed on basis of DSR - | 41 | Providing and fixing of storage cabinet consisting of 19 mm thick water proof non decorative type core of Block board construction with frame of first class shard wood and well mached commercial ply veneerig with vertical grains of cross bands and face veneering on both faces. The cabinet shall consist of shelves, shutters/c beading, lipping, etc and fixed with necessary hinges, brass handles, magnetic catchers aluminium tower bolts, supporting frame and lamination with glazed laminate to give proper finish. In the room of Associate Prof. Anuradha Chaturvedi. | sqm | 1.39 | 10822.6 | 15043.41 |
| Analyzed on basis of DSR - | 42 | Providing and fixing wooden shelf consisting of 19mm thick commercial non decorative type block board construction with frame of 1st class hard wood and well matched commercial ply veneering with vertical grains and cross bands and face veneering on both faces. The half shall consist of shelves, shutters including lipping, beading and fixing with L beware hinges , supporting frame and laminate as per the given drawing to give proper finish as directed and to the entire satisfacting of the Engineer in charge . complete (PROFILE A) | Each | 1 | 17156.86 | 17156.86 |
| Analyzed on basis of DSR - 2016 | 43 | Providing and fixing wooden shelf consisting of 19 mm thick commercial non decorative type block board construction with frame of 1st class hard wood and well matched-commercial ply veneering with vertical grains and cross bands and face veneering on both faces. The shelf shall consist of shelves, shutters including lipping, beading and fixing with-L beware hinges, supporting frame and laminate as per the given drawing to give proper finish as directed and to the entire satisfacting of the Engineer in charge complete (PROFILE B) | Each | 1 | 25770.44 | 25770.44 |
| Analyzed on basis of DSR - | 44 | Dismantling /removal of existing cabinets /racks etc (wooden work) | Each | 1 | 3000 | 3000.00 |
| | | TOTAL | | | | 543421 |
| | | Based on PAR-2012 Add 15 % for internal electrical installations for Labourtories of Schools | | | | 81513 |
| | | Based on DSR 2016 Add 1% Cost Index | | | | 5434 |
| | | 1% Labour Cess | | | | 5434 |
| | | Grand total | | | | 635802 |
| | | Say Rupees :-Six lacs Thirty five thousand eight hundred & two only. | | | | |

Terms & Conditions

- The work shall be completed within Two months from the date of issue of work order otherwise 1 % penalty per day up to a maximum of 10 % shall be imposed on gross amount of bill
- 2 % Income tax will be deducted from the bill
- The supply will be given as per manufacture specification and entire satisfaction of Engineer In-charge Vat will be deducted from the bill as per applicable.
- 1% water/electrical charges will be deducted from the bill.
- 1% Labour Cess charges will be deducted from the bill.
- 10 % security will be deducted form the bill and the same will be released to contractor after completion of diffect libilty period.


 Assistant Engineer (Civil)

| SCHEDULE OF WORK | | | | | | |
|---|--------|--|-------|----------|----------|----------|
| Name of work:- Miscellenious work at Planning Building & Architecture Building SPA New Delhi: | | | | | | |
| DSR 2016 | S. No. | Description of Item | Unit | Quantity | Rate | Amount |
| | 1 | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : | | | | |
| 14.75/249 | | 1. With cement mortar 1:4 (1 cement : 4 fine sand) | sqm | 50 | 368.9 | 18445.00 |
| 14.6.2/242 | 2 | Renewing glass panes, with wooden fillets wherever necessary: | | | | |
| | | 5.5 mm thick glass panes | sqm | 20 | 1113.25 | 22265.00 |
| 14.8.2/242 | 3 | Supplying and fixing new wooden fillets wherever necessary: | | | | |
| | | 14.8.2 Hollock wood fillets | metre | 30 | 34.20 | 1026.00 |
| 14.9/243 | 4 | Renewal of old putty of glass panes (length) | metre | 50 | 25.45 | 1272.50 |
| 14.45/246 | 5 | Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : | | | | |
| | | Old work (one or more coats) | sqm | 1000 | 33.35 | 33350.00 |
| 14.46/243 | 6 | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand paping and preparing the surface smooth including necessary repairs to scratches etc. complete. | sqm | 200 | 10.8 | 2160.00 |
| 14.53/247 | 7 | Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : | | | | |
| | | One or more coats on old work | sqm | 350 | 55.25 | 19337.50 |
| 13.61.1/232 | 8 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : | | | | |
| | | One or more coats on old work | sqm | 150 | 78.4 | 11760.00 |
| 14.63/248 | 9 | Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. | | | | |
| | | One or more coats on old work | sqm | 500 | 29.8 | 14900.00 |
| 14.64.1/248 | 10 | Finishing walls with water proofing cement paint of required shade : | | | | |
| | | Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat. | sqm | 150 | 55.7 | 8355.00 |
| 6.1.1/111 | 11 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: | | | | |
| | | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 2 | 4,970.30 | 9940.60 |
| 6.4.1/111 | 12 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : | | | | |
| | | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 2 | 5,801.50 | 11603.00 |
| 6.13.2/112 | 13 | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. | | | | |
| | | Cement mortar 1:4 (1 cement : 4 coarse sand) | sqm | 10 | 684.20 | 6842.00 |
| 9.97.2/158 | 14 | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 250x10 mm | each | 30 | 88.10 | 2643.00 |
| 9.100.2/159 | 15 | 9.100 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 100 mm | each | 10 | 45.10 | 451.00 |
| 10.25.2/185 | 16 | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 10.25.2 in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works | kg | 100 | 85.95 | 8595.00 |
| 11.43/197 | 17 | Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness. | sqm | 50 | 386.2 | 19310.00 |
| 18.49.1/334 | 18 | 18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : | each | 10 | 371.7 | 3717.00 |
| | | 18.49.1 15 mm nominal bore | | | | |
| 18.53.1/334 | 19 | 18.53 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore 18.53.1 15mm nominal bore | each | 10 | 475.7 | 4757.00 |
| 18.10.1/326 | 20 | 18.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, l/c cutting and making good the walls etc. Internal work - Exposed on wall | metre | 30 | 186.4 | 5592.00 |
| | | 18.10.1 15 mm dia nominal bore | | | | |
| | | 18.10.2 20 mm dia nominal bore | metre | 30 | 224.15 | 6724.50 |
| | | 18.10.5 40 mm dia nominal bore | metre | 20 | 394.15 | 7883.00 |
| | | 18.10.6 50 mm dia nominal bore | metre | 20 | 472.4 | 9448.00 |
| 18.21.1/328 | 21 | 18.21 Providing and fixing uplasticised PVC connection pipe with brass unions : | each | 10 | 59.4 | 594.00 |
| | | 18.21.1 30 cm length 18.21.1.1 15 mm nominal bore | | | | |

| | | | | | | |
|---|----|---|-------|----|--------|-----------|
| 18.18.1/327 | 22 | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 18.18.1 15 mm nominal bore | No | 30 | 287.25 | 8617.50 |
| 17.7.2/293 | 23 | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: 17.7.2 White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap | No | 5 | 2020.6 | 10103.00 |
| 17.1.1/292 | 24 | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7234, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: 17.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests | No | 3 | 3494.2 | 10482.60 |
| 17.2.1/292 | 25 | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7234, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : 17.2.1 W.C. pan with ISI marked white solid plastic seat and lid | No | 3 | 3418.7 | 10256.10 |
| Analyzed items based on DSR | 26 | P/F 12mm thick soft board (imported) cellotex with 6mm thick commercial ply fixing with second class teak wood plug and screws and nails and including with push pins (packet of 25) | Sqm | 20 | 1165.7 | 23314.00 |
| 9.40.2/151 | 27 | Providing and fixing wooden molded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete: 9.40.2 KIn seasoned and chemically treated hollock wood 50x20 mm | Metre | 50 | 118.35 | 5917.50 |
| Analyzed items based on DSR | 28 | Providing and fixing 6mm thick commercial ply wood with nails on existing wooden frame complete as per entire satisfaction of the engineer in-charge. | Sqm | 6 | 1064.7 | 6388.20 |
| Analyzed items based on DSR | 29 | P/F regular roller blinds of approved shade and tecture etc complete as per direction and entire satisfaction of Engineer in charge. | sqm | 25 | 1500 | 37500.00 |
| Analyzed items based on DSR | 30 | Sun control film on glasses | sqm | 10 | 295 | 2950.00 |
| TOTAL | | | | | Rs. | 346500.00 |
| Based on DSR 2016 Add 1% Cost Index | | | | | | 3465 |
| Grand total | | | | | | 349965 |
| Say Rupees | | | | | | 350000 |
| Say Rupees :- Three lacs fifty thousand only. | | | | | | |

Terms & Conditions

- 1 The work shall be completed within Six months from the date of issue of work order otherwise 1 % penalty per day up
- 2 2 % Income tax will be deducted from the bill
- 3 The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% water/electrical charges will be deducted from the bill.
- 6 1% Labour Cess charges will be deducted from the bill.
- 7 10 % security will be deducted form the bill and the same will be released to contractor after completion of defect

[Signature]
Assistant Engineer (Civil)

| Schedule of work | | | | | | |
|--|-------|--|------|-------|---------|-----------|
| Subject:- White washing, painting, distemper in M.B. hostel at Maharani Bagh Complex and ITO Girls hostel Planning Building SPA New Delhi. | | | | | | |
| DSR-2016 | S.No. | Description of work | Unit | Qty | Rate | Amount |
| 14.43/246 | 1 | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete | Sqm | 6700 | 8.35 | 55945 |
| 14.46/246 | 2 | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. | Sqm | 1715 | 10.8 | 18522 |
| 13.42.1/230 | 3 | Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work. | Sqm | 1200 | 53.15 | 63780 |
| 14.63.1/248 | 4 | Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. One or more coats on old work | Sqm | 9036 | 29.8 | 269272.8 |
| 13.37.1/230 | 5 | White washing with lime to give an even shade : New work (three or more coats) | sqm | 1000 | 17.25 | 17250 |
| 14.42.1/246 | 6 | White washing with lime to give an even shade : Old work (two or more coats) | sqm | 17500 | 10.25 | 179375 |
| 14.6.1/242 | 7 | Renewing glass panes, with wooden fillets wherever necessary: Float glass panes of thickness 4 mm | sqm | 55 | 852.6 | 46893 |
| 14.1.1/242 | 8 | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : 14.1.1 With cement mortar 1:4 (1 cement : 4 fine sand) | Sqm | 110 | 364.8 | 40128 |
| 15.1/353 | 9 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. 15.2.1 Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) | cum | 1 | 997.05 | 997.05 |
| | | 15.2.2 Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) | cum | 1 | 615.15 | 615.15 |
| 4.1.3/88 | 10 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : " 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size). | cum | 11.5 | 5481.95 | 63042.425 |
| 11.26/195 | 11 | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand): 25 mm thick | Sqm | 20 | 1158.1 | 23162 |

- 55 -

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|----------------------------|----|--|-----|-------|---------|----------|
| 13.80/234 | 12 | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. | Sqm | 7800 | 87.35 | 681330 |
| 13.43.1/230 | 13 | Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer. | Sqm | 7100 | 36.95 | 262345 |
| 15.60/258 | 14 | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved. | qum | 18 | 120.55 | 2169.9 |
| 14.53/247 | 15 | Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : One or more coats on old work | Sqm | 3000 | 55.25 | 165750 |
| Analyzed item based on DSR | 16 | Taking out furniture from room ie bed , tabal, chair, rack, etc. and after cleening the same put in position in room complete as directed by engineer I charge. | No | 178 | 72 | 12816 |
| 14.54.1/247 | 17 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work | Sqm | 10310 | 51.3 | 528903 |
| Analyzed item based on DSR | 18 | Renewing, cutting and fixing 3mm to 4mm thick fiver glass sheet with wooden fillets wherever necessary nails etc. | sqm | 35 | 1212.48 | 42436.8 |
| 13.61.1/232 | 19 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work | sqm | 900 | 78.4 | 70560 |
| 13.44/230 | 20 | Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm) | sqm | 250 | 58.8 | 14700 |
| 14.64.2/248 | 21 | Finishing walls with water proofing cement paint of required shade :Old work (one or more coats @ 2.20 kg/10 sqm) complete. | sqm | 2500 | 37.9 | 94750 |
| 9.21.1/148 | 22 | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. | Sqm | 90 | 1559.75 | 140377.5 |
| 9.27.1.1.2/149 | 23 | Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws Kiln seasoned and chemically treated hollock wood | Sqm | 50 | 2181.85 | 109092.5 |

- 22 -
- 23 -

| | | | | | | |
|-----------------|----|---|-------|-----|--------|---------|
| 9.48.1/15 2 | 24 | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding. | kg | 200 | 104.65 | 20930 |
| 9.51.1/15 2 | 25 | Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete. With 2nd class teak wood beading 62X19 mm | sqm | 50 | 846.45 | 42322.5 |
| 9.97.2/15 8 | 26 | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 250x10 mm | each | 80 | 88.1 | 7048 |
| 9.100.2/1 59 | 27 | Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 100 mm | each | 140 | 45.1 | 6314 |
| 9.101.2/1 59 | 28 | Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper | each | 50 | 38 | 1900 |
| 9.119/162 | 29 | Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge. | metre | 64 | 438.75 | 28080 |

- 25 -

- 52 -

- 47 -

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|----------------------------|----|---|------|----|--------|--------|
| 9.120.1/1 63 | 30 | Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing. 30 mm thick plain PVC door shutters | sqm | 40 | 2768.1 | 110724 |
| Analyzed item based on DSR | 31 | Welding/repair to door/window to make it operational by cutting, welding refixing in position whatever required as per direction of engineer incharge. | each | 20 | 422 | 8440 |
| 17.2.1/29 2 | 32 | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid. | each | 10 | 3418.7 | 34187 |
| 17.1.1/29 2 | 33 | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: 17.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests | each | 10 | 3494.2 | 34942 |

| | | | | | | |
|---------------|----|--|------|----|--------|---------|
| 17.5.2/193 | 34 | Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS :2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern. | each | 5 | 9317.6 | 46588 |
| 18.58.1/335 | 35 | Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia | each | 40 | 32.75 | 1310 |
| 18.58.1.2/335 | 36 | Providing and fixing PTMT grating of approved quality and colour. Circular type 125 mm nominal dia with 25 mm waste hole | each | 40 | 45.55 | 1822 |
| 18.7.4/325 | 37 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 18.7.4 32 mm nominal outer dia Pipes | each | 60 | 289.05 | 17343 |
| 17.25.1/296 | 38 | Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : Flat back wash basin of size 630x450 mm. | each | 20 | 969.3 | 19386 |
| 17.18.1/295 | 39 | Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete. 17.18.1 10 litre capacity - White | each | 20 | 831.5 | 16630 |
| 17.31/297 | 40 | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. | each | 40 | 817.95 | 32718 |
| 11.36/196 | 41 | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. | sqm | 30 | 744.8 | 22344 |
| 11.37/196 | 42 | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete. | sqm | 30 | 688.35 | 20650.5 |

— 28 —

— 27 —

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|----------------------------|----|--|------|-------|---------|-----------|
| 18.56.2/3 35 | 43 | Providing and fixing CP Brass pillar cock of approved quality and colour 15 mm nominal bore | each | 40 | 186.3 | 7452 |
| 18.53.1/3 34 | 44 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore | each | 40 | 475.7 | 19028 |
| 18.49.1/3 34 | 45 | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore | each | 40 | 371.7 | 14868 |
| 18.51.1/3 34 | 46 | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore | each | 40 | 492.55 | 19702 |
| 17.20.1/2 96 | 47 | Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete : White solid plastic seat with lid | each | 40 | 410.2 | 16408 |
| 18.21.2.1/ 328 | 48 | Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length 15 mm nominal bore | each | 100 | 67.8 | 6780 |
| 18.22.2/3 28 | 49 | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter | each | 20 | 85.9 | 1718 |
| 17.13.2/2 95 | | Providing and fixing white vitreous china water closet squatting pan (Indian type) : Orissa pattern W.C. pan of size 580x440 mm | each | 20 | 1456.6 | 29132 |
| 6.4/111 | 50 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : 6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 4 | 5801.5 | 23206 |
| | 51 | 6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 7 | 5582.85 | 39079.95 |
| 6.13.2/11 2 | 52 | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand) | Sqm | 20 | 684.2 | 13684 |
| 9.1.3/144 | 53 | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Kiln seasoned and chemically treated hollock wood | cum | 0.03 | 54930.3 | 1647.9075 |
| 9.3.2/144 | 54 | Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position 9.3.2 Kiln seasoned and chemically treated hollock wood | cum | 0.075 | 49465.1 | 3709.8825 |
| 9.38/151 | 55 | Providing and fixing 6 mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete. | Sqm | 15 | 1030.7 | 15460.5 |
| Analyzed item based on DSR | 56 | Taking out PVC disentailed tank from Planning Building SPA campus | job | 1 | -700 | -700 |

- 56 -

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|----------------|----|--|--------------------|------|--------|-----------|
| 15.7.4/21 2 | 57 | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. 15.7.4 In cement mortar | cum | 14 | 842.75 | 11798.50 |
| 14.72/249 | 58 | Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. | Sqm | 420 | 160.15 | 67263.00 |
| 13.21/228 | 59 | Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers | per 50 kg cement t | 125 | 50.35 | 6293.75 |
| 6.8/111 | 60 | Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level. | Sqm | 140 | 535.50 | 74970.00 |
| 11.3.1/18 2 | 61 | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1 40 mm thick with 20 mm nominal size stone aggregate | Sqm | 140 | 362.60 | 50764.00 |
| 13.5.1/22 7 | 62 | 15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand) | Sqm | 140 | 209.65 | 29351.00 |
| 10.2/182 | 63 | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. | kg | 2800 | 67.60 | 189280.00 |
| 23.9/393 | 64 | Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm mm x 1.6 mm complete, all as per direction of Engineer-in-charge. | each | 10 | 959.35 | 9593.50 |

- 54 -

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|------------|----|---|------|-----|---------|----------|
| 15.60/258 | | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved. | cum | 150 | 120.55 | 18082.50 |
| 19.3.4/35 | 65 | 19.3 Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : 19.3.4 250 mm diameter S.W. pipe | mtr. | 15 | 656.60 | 9849.00 |
| | 4 | 19.3.5 300 mm diameter S.W. pipe | mtr. | 15 | 757.60 | 11364.00 |
| 19.6.3/35 | 66 | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1.cement : 2 fine sand) including testing of joints etc. complete : 250 mm dia. R.C.C. pipe | mtr. | 15 | 482.05 | 7230.75 |
| | 5 | 300 mm dia. R.C.C. pipe | mtr. | 15 | 518.55 | 7778.25 |
| 2.10.1/77 | 68 | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : 2.10.1 All kinds of soil 2.10.1.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm | mtr. | 15 | 352.00 | 5280.00 |
| 2.25/75 | 69 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. | cum | 10 | 125.75 | 1257.50 |
| 19.7.1.1/3 | 70 | Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : 19.7.1 Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 2 | 8634.10 | 17268.20 |

- 578 -

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|----------------------------|----|---|-------|------|---------|----------|
| 19.21.2/3 60 | 71 | Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : 19.21.2 For pipes 250 to 300 mm diameter | each | 3 | 463.45 | 1390.35 |
| Analyzed item of PWD | 72 | Cleaning of road gully grating chamber/gully trap chamber of all size & depth, removing of silt and disposal of sludge/sewer silt to near by pit & levelled up as per direction of engineer-in-charge. | each | 70 | 22.01 | 1540.70 |
| Analyzed item of PWD | 73 | Cleaning of man holes of size upto 900mmx 1200 mm and depth upto 1500mm including removing of silt, sludge, carriage & disposal to the required place, including all necessary precautionary measures by the contractor as per direction of engineer-in-charge. | each | 75 | 42.49 | 3186.75 |
| Analyzed item of PWD | 78 | Cleaning of sewer lines, covered S.W. drains having flow in the lines, cleaning to be done by disc. Ropes, steel rods by mechanical machines. The entire responsibility for cleaning by all method shall be of the contractor and all necessary precautionary arrangement for to avoid accidents shall be made by the contractor and silt be disposed of up to 50 metres in the near by pits and levelled up as per direction of engineer-in-charge. 100 to 300 mm diameter pipe | Metre | 460 | 14.80 | 6808.00 |
| Analyzed item of PWD | 75 | Cleaning of storm water drains by miscellaneous ropes, khappachies, phawarah etc complete all required precautionary measures to be taken by contractor to avoid accidents including disposal of silt/rubbish upto 50m lead as per direction of engineer-in-charge. 100 to 300 mm diameter pipe | Metre | 320 | 11.58 | 3705.60 |
| Analyzed item of PWD | 76 | Cleaning of choked sewer lines, open drain and pipe of all diameter upto required depth from one manhole by chassis mounted diesel run vehicle, Hydraulic operated high pressure suction cum jetting, sewer cleaning machine fitted with standard pumps having jetting tank capacity of minimum 5000 Litre and suction tank capacity of minimum 3000 Litre and suction flow 10200 LPM and jetting pump 260 LPM at 155 bar/2200 psi including skilled driver and opratr for de-choking, flushing, cleaning of manholes and link including providing 4 Nos helper for handling suction pipe and manholes cleaning including mobilization and de-mobilization, fuel, water, for jetting tank, disposal of silt/slurry for all lead at lifts etc, complete. | Hour | 10 | 3350.00 | 33500.00 |
| Analyzed item of PWD | 77 | Cleaning of terrace (unaccessible) of SPA hostels building by sweeping, Stacking of malba, building rubbish and garbage etc. and putting in empty bags, cleaning rain water pipe khurras, stacking the garbage/building rubbish at ground floor for further disposal complete as per direction of Engineer-in-charge. | Sqm | 2400 | 3.71 | 8904.00 |
| | | TOTAL | | | | 41655.28 |
| | | Based on DSR 2016 Add 1% Cost Index | | | | 41655.28 |

- 59 -

- 31 -

| | | | | | |
|--|--|---|--|--|------------|
| | | | | | 41655.28 |
| | | 1% Labour Cess | | | 4248838.27 |
| | | Grand total | | | 4248838 |
| | | Say Rupees | | | |
| | | Say Rupees in words :- Forty Two lacs forty eight thousand eight hundred & thirty eight only. | | | 4248838 |

Terms & Conditions

1. The work shall be completed within Three months from the date of issue of work order otherwise 1 % penalty per day up to a maximum of 10 % shall be imposed on gross amount of bill
2. 2 % Income tax will be deducted from the bill
3. The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge
4. Vat will be deducted from the bill as per applicable.
5. 1% water/electrical charges will be deducted from the bill.
6. 1% Labour Cess charges will be deducted from the bill.
7. 10 % security will be deducted form the bill and the same will be released to contractor after completion of diffect libilty period.


 Assistant Engineer (Civil)

- 59 - (2) -

MEMORANDUM OF UNDERSTAND

Scope of Work: Planning and Construction of 'School of Planning and Architecture, Vasant Kunj Campus' as 'Deposit Work' on total turnkey basis at Vasant Kunj, New Delhi.

The MOU made at New Delhi on day of , 2017, between the School of Planning and Architecture, New Delhi having its Head Office at 6-B, IP Estate, New Delhi 110002 (hereinafter called the 'Employer') and the terms 'Employer' shall mean and include its administrators and assignee in one PART

AND

Central Public Works Department (CPWD) having its Chief Engineer, New Delhi Zone IV office at R.K.Puram, New Delhi 110066 (hereinafter called the 'EXECUTING AGENCY') and the terms the 'EXECUTING AGENCY' shall mean and include its administrators, executors and assignee in the OTHER PART.

WHEREAS, the Employer has agreed to entrust the works relating to Project Planning and Construction of School of Planning and Architecture as 'Deposit Work' on total turnkey basis at Vasant Kunj, New Delhi here in after and whereas the EXECUTING AGENCY has agreed to undertake and complete the works accordingly.

NOW, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES AS UNDER:

1.0 DEFINITIONS

'Approval' means approval in writing by the designated officer of the Employer.

'Project' means Planning and Construction of School of Planning and Architecture as 'Deposit Work' on total turnkey basis at Vasant Kunj, New Delhi.

'Executing Agency' means the Central Public Works Department (CPWD)

'The construction Activities means finalization of design and its preliminary estimate and DPR approval.

'Contractor' means the contractor or contractors or suppliers or agencies employed by the Executing Agency for the work or any connected work, including the Executing Agency itself in case any work is done directly by the Executing Agency.

2.0 GENERAL

2.1 The CPWD as Executing Agency shall carry out the entire Planning and Construction of School of Planning and Architecture, Vasant Kunj Campus as 'Deposit Work; on total turnkey basis including Architectural, structural and services design, interior design and furnishing (if required) complete in all respect i.e. ready for immediate utilization, and its project management, supervision and related services. The Executing Agency shall be paid actual cost of works.

2.2 The expression 'actual cost of works' shall include the following :

All the final payments made to the contractor(s), suppliers, agencies as agreed upon in the tender (if the work is being tendered), or agreed with the Employer (if the work is not being tendered)

For the construction of all the buildings, services, related facilities. Shall include the work contract tax, service tax and turn-over or any other tax which may come in force during execution, as applicable on the execution of works.

All costs of material acquired for the project and used on the work, either directly or through the contractor(s) including storage charges, carriage and any other incidental charged connected with such materials but excluding the material not incorporated or not handed over to the Employer.

Actual cost of site survey, soil testing charges, laboratory charges for testing of any material, manufactured or built items including the cost of cartage of samples to and from the laboratory including cost of field laboratory equipment and consumables of the field laboratory set up by CPWD including any contingent charges related to the project.

All liabilities of the Executing Agency payable to the contractors/ Piece Rate Works, suppliers, consultant(s) inspection vehicle buying or hiring and other agencies to the extent these falls within the definition of actual cost as may be left outstanding at the time of payment of final bill provided they have been accepted by the Executing Agency as balance payment against final bill of these agencies.

2.3 The actual final cost of work shall not include the following for the purpose of calculation of Executing Agency's agency charges:

- (a) Cost of land.
- (b) Cost paid by the Employer to local government or any other statutory body or bodies for getting approvals for the project.
- (c) The turnover tax, service tax, work contract tax etc. and any other tax or cess directly paid by the Employer.

3.0 RESPONSIBILITIES OF THE EXECUTING AGENCY :

The pre construction and post tendering Planning of the project shall be done by the Executing Agency based on the requirements and specifications of the Employer.

3.1 Pre-construction Activities:

3.1. The Architect of the Executing Agency shall facilitate in getting all the local body approvals that are necessarily to be obtained as per local body rules. Employer shall submit building plans/maps to the local bodies for clearance.

3.1.2 Executing Agency shall prepare preliminary estimates of cost of the various items of work and buildings as required by Employer on CPWD plinth area rates (where ever applicable) enhanced by the cost index of the area and market rate analysis for items which are not included in CPWD, PAR, to be worked out as per standard norms/ methods. The Preliminary Estimate shall be based on the architectural drawings on the basis of the requirements projected by the Employer and duly approved by the employer.

3.1.3 Executing Agency shall prepare the tender documents comprising the technical specification detailed estimates BOQ, General Terms and Conditions Special Conditions etc. based on detailed design of architecture, structure and MEP services for inviting and acceptance of tenders. Executing Agency shall make all effort to control cost within the approved estimate and ensure minimal variation between tendered drawings and good for construction drawings.

3.1.4 Subsequent to signing of the MOU the Executing Agency shall take possession of the site from the Employer and shall nominate a responsible Engineer for execution of the project under intimation to the Employer.

3.1.5 The Agency will also independently brief Director, School of Planning and Architecture, New Delhi or his nominee on progress of work.

3.2 Construction Activities:

3.2.1 Executing Agency shall endeavor to engage one of the best available Construction agency for construction of the proposed Campus, including the buildings and other infrastructure of the Employer through the laid down Government of India procedure and CVC guidelines for procurement of services.

3.2.2 The Executing Agency shall also get the work executed as per the architecture design/drawings and other details agreed by the Employer as "Good for Construction". The Executing Agency shall be fully responsible for the timely completion, the quality, appropriateness of engineering designs of MEP services and structural suitability and safety of the project. Top and reputed companies should be contacted in a road show so that they participate in the tender.

3.2.3 The Employer may through their authorized representative, review the progress and 'construction work' from time to time to see that the campus development activities and buildings are being constructed as per designs, drawings & specifications, agreed upon. In case of any noticeable defects or variations over the approved drawings /specifications, the same shall be rectified within 30 (thirty) days from its report. During the various stages of execution, Executing Agency shall submit monthly progress reports with site photographs to the Employer.

3.2.4 The Executing Agency shall be responsible for the proper structure, specifications and workmanship in the constructed building. Liability for all defects on the building constructed by the Executing Agency shall rest with them for a period of twelve months from the date of its handing over to the Employer. Executing Agency shall be responsible for satisfactory rectification of defects during this liability period. Any defects discovered and brought to the notice of the Executing Agency during the period aforesaid shall be rectified by Executing Agency forthwith. Liability for delay by CPWD will be clearly stipulated.

3.2.5 The Executing Agency shall unless otherwise specified be fully responsible for procurement of all materials and services for the construction activity.

3.2.6 The Executing Agency shall be fully responsible to defend any suits or arbitration cases arising out of a project in connection with the work between the Executing Agency and its Contractor(s).

3.2.7 Handing over to Employer or its authorized representatives(s) completed building along with a set of complete and correct "As - built Drawings" along with literature, manuals, warranty.

4.0 RESPONSIBILITIES OF THE EMPLOYER:

4.1 Pre-construction Activities:

4.1.1 The Employer shall demarcate and make available the site for the project free of all encumbrances or charges. The Employer shall supply all relevant site data to Executing Agency for planning and execution of work(s).

4.1.2 Flow of Funds

- (i) The CPWD has no funds of its own for investing in the work (s). As such full estimated cost(s) including Departmental charges, if any, will have to be deposited by School of Planning and Architecture. No interest whatsoever shall be paid by the CPWD on deposited funds with CPWD.
- (ii) 33.33% of the estimated cost assessed by CPWD shall be deposited as advance by School of Planning and Architecture before the award of contract to Executing Agency. Thereafter, the client shall reimburse the expenditure in full through bills raised periodically by the CPWD. The initial deposit of 33.33% would be retained for adjustment against the last portion of the estimated expenditure.
- (iii) CPWD does not bind itself to complete work(s) within the sanctioned cost. However, CPWD undertakes to intimate School of Planning and Architecture about any excess over the sanctioned cost as soon as it comes to its knowledge. School of Planning and Architecture shall accord revised sanction within a reasonable time, in case cost escalation is inevitable on account of rise in cost index or otherwise due to revised requirements.
- (iv) In case the School of Planning and Architecture fails to provide funds in time as per requirements and it may be necessary for CPWD to suspend/abandon the work. In such eventuality, School of Planning and Architecture shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- (v) Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by award of Arbitration in relation to the work(s) will be made available by the client promptly irrespective of the fact that School of Planning and Architecture not being a party before the Court, Tribunal or Arbitrator (s). Such payments will be in addition to the payments made to the contractors for execution of work(s).
- (vi) If the amount deposited by the School of Planning and Architecture is more than the actual cost of construction which includes compensation, arbitration award and bonus, if any the balances will be returned to School of Planning and Architecture on completion of the work and finalization of accounts by CPWD, preferably within a period of 08 (eight) months from the date of completion.

4.1.3 The Employer shall help the Executing Agency and its Architect to the extent of writing letters to the local bodies or any other assistance felt necessary for getting such approvals of the local bodies to statutory bodies for planning and construction as contemplated in this MOU.

4.1.4 The employer shall designate a suitably empowered Nodal officer for coordinating with the Executing Agency for the entire project duration. All communication by the designate Nodal Officer of the employer will be made with the designated officer of Executing Agency. The designated Nodal officer of the Employer shall be authorized to obtain and communicate decisions of Employer and assist Executing Agency in completion of project.

4.1.5 Pay suitable compensation to Executing Agency to be decided by the Chief Engineer concerned of Executing Agency in consultation with the Employer, if the Employer decides to conclude this MOU or decides to drop the proposal after substantial preliminary work has been done by Executing Agency on the project.

4.1.6 The Employer shall allow Executing Agency or its Agency to erect site office(s), site store(s) and workers rest rooms (including toilets) near the place of construction free of ground rent. These structures shall be removed and cleared by Executing Agency upon completion of work. In case any buildings and infrastructures work is required to be constructed by the Employer on the land occupied by the site office/store/workers rest rooms, Executing Agency shall re-locate these structures.

4.1.7 Buildings and infrastructures under construction shall be under the custody of Executing Agency till the works is handed over to the Employer.

4.1.8 The Employer shall obtain permission for the tree cutting wherever necessary. The Employer shall also take responsibility to shift overhead/underground electrical transmission lines, diversion of drains/sewers, water supply lines etc., wherever necessary.

4.1.9 The Employer shall permit and allow without any payments/charge drawal of ground water for the purpose of execution of work(s) for use of Executing Agency staff, contractor and labour etc. Executing Agency and their contractor shall make their own arrangements of water including making of bore well in the campus subject of prior mandatory approval from the state Government offices, if any. The Employer shall assist in obtaining such permission but cannot give guarantee of the water supply. Under any circumstances, it will be the responsibility of Executing Agency and their agency to arrange for water.

4.1.10 The Employer shall permit and allow with payment/charge for use of available electricity. The Employer shall also assist obtaining electric connection.

4.2 Post-construction Activities:

4.2.1 If the Executing Agency envisages any cost overruns a proposal in this regard will be forwarded by the Executing Agency to the Employer along with the detailed justifications. Based on the justification, the employer will consider and accord sanction of revised cost.

4.2.2 In case of abandonment of project/ work during construction stage pay to Executing Agency all liabilities relating to the project/ work or to be paid to construction agencies engaged by Execution Agency for execution of the project

5.0 COMPLETION OF THE PROJECT:

5.1 The date of start of the work shall be reckoned from the 30th day after the payment of advance of deposit or the date of handing over the site whichever is later.

- 5.2 After approval of a preliminary estimate and deposition of funds by the Employer, the work will be taken up by the Executing Agency. During the pre construction activities, the Employer shall be closely associated with the Executing Agency. The pre construction activity is likely to take about 6 (six) to 9 (nine) months. During this period, complete campus Planning and design of building as aforesaid, the tender documents for the main composite work comprising of superstructure, internal plumbing and sanitary works, external engineering infrastructure and civil development and all E&M services, Lifts etc. shall be framed and an agency(s) fixed. Period of actual execution of the work shall not exceed 24 months after approval of the building plans of the projects from the local bodies.
- 5.3 Executing Agency shall make effects to execute the works at approved cost. In case at detailed design/ execution stage, if there is an increase of the cost executing agency shall intimate the same with the supporting documents and technical/ administrative justification to the Employer well in advance so as to avoid any delay in project completion due to approval procedures at the Employer's end.
- 5.4 Executing Agency shall be required to complete the construction of project within the period stipulated in para. 5.2 above. The Executing Agency shall submit a Schedule of Construction Activities, showing completion of the project and report progress of the work on monthly basis. In case of any delay, the Executing Agency shall communicate the reasons for the delay to the Employer with justification and time recovery plan, wherever required and possible. Executing Agency shall make all efforts to forecast occurrence of risks leading to time and cost over-runs. In case of delay which may occur due to the reasons beyond the control of Executing Agency, Executing Agency would approach the Employer with full details for extension in time limit for completion of the works.
- 5.5 Executing Agency shall be wholly and solely responsible for any observations/ comments/ defects pointed out by C.T.E. / C.V.C. in the Planning & procedures of execution of this project.
- 5.6 The cost of any arbitration award or the cost as a result of any direction of any court in respect of the work done or to be done shall be borne and paid by the Employer.
- 5.7 The Executing Agency shall be fully responsible for observance of all labour and other laws applicable in the matter and shall indemnify and keep indemnified the Employer against effect of non-observance of any such laws.
- 5.8 Responsibilities to obtain Completion Certificate and Occupancy certificate rests with the Executing Agency and the project shall deemed to have been completed and at the stage of handing over only when these are obtained from the local body.
- 5.9 Employer will not be liable directly to the contractors/ suppliers of the items requires for execution of contract. Further, Employer shall not be liable in any manner whatsoever, for damages/ compensation under workmen compensation Act or any other law or in courts or in civil law.

6.0 ASSIGNMENT OF THE M.O.U. :

- 6.1 The Executing Agency shall not assign or transfer or part with any of the rights, duties of obligations, wholly or in part, under this M.O.U. without the prior consent in writing of the Employer.
- 6.2 This M.O.U. will come into effect only after the unencumbered possession of the site is handed over by Employer to Executing Agency.

7.0 DISPUTE REDRESSAL :

In the event of any dispute or difference with regard to the interpretation and applicability of this M.O.U. the same shall be referred to the redressal mechanism available for dispute resolution between the departments under Government of India.

8.0 This memorandum of understanding shall remain valid for a period of 36 months from the date of signing. This period can be extended by both the parties by mutual consent. Modification in terms and conditions of this memorandum of understanding can also be done by mutual consent of both parties.

9.0

IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals the day and year first above written.

{For and on behalf of School of
Planning and Architecture}

Witness :

Name :

Name :

Designation :

Address :

Address :

{For and on behalf of CPWD}

Witness :

Name :

Name :

Designation :

Address :

Address :

F. No.3-16/2016-TS.VI
Government of India
Ministry of Human Resource Development
Department of Higher Education

New Delhi dated the 20th July, 2017

To
The Registrar,
School of Planning and Architecture,
Block. B. I. P. Estate,
New Delhi - 110002.

*F. No. 3-16/2016-TS.VI
1/8/17
BWC/17*

Sub: Minutes of the First Building and Works Committee Meeting held on 22nd June, 2017.

1. I am directed to refer to your letter No. CCC/01BWC/SPA/2017 dated 06th July, 2017 on the subject mentioned above and to say that the minutes recorded appears to be O.K., hence, may be approved. Further, during the meeting it was emphasized that with regard to the any Agenda item wherein the financial implications are involved, mandatorily, the approval of FC/BOG should be sought for and also should complied with the following:-

- (v) GFR provisions (now GFR, 2017).
- (vi) Mandatory e-tendering and upload the same on the School's website.
- (vii) Purchasing of goods and articles through Government e-Marketing Place (GeM) only i.e. DGS&D rate contracts.
- (viii) The CVC guidelines on transparency as issued from time to time.

2. Further, Director of the School was also requested for expediting the signing of MoU between School authorities and CPWD on priority to enable the CPWD to take up the construction activities at the new site (Vasant Kunj) immediately to meet out the schedule of construction of the new School building as approved in its DPR by SFC.

3. The Director and Registrar of the School were specifically requested to ask their administration and finance branch officers to go through the GFR, 2017 provisions specifically GFR 229, 230 & 238 respectively which are very important for autonomous bodies [A circular at the level of FA(HRD) on this subject matter has also been issued to all CFTIs].

Yours faithfully,

B.K. Bhadri

(B.K. Bhadri)
Assistant Educational Adviser(DL)