



# योजना तथा वास्तुकला विद्यालय, नई दिल्ली

संसद के अधिनियम के तहत "राष्ट्रीय महत्व का संस्थान"

(शिक्षा मंत्रालय, भारत सरकार)

**School of Planning and Architecture, New Delhi**

An "Institution of National Importance" under an Act of Parliament

(Ministry of Education, Government of India)

उमकान्त अग्रवाल  
सचिव  
Umakant Agarwal  
Registrar

Ref.No.F.54/11BWC/SPA/2021

23<sup>rd</sup> July, 2021.

To

**ALL MEMBERS OF THE BUILDING WORKS COMMITTEE OF THE SCHOOL OF PLANNING AND ARCHITECTURE, SPA-DELHI**

**Subject: Minutes of the 11<sup>th</sup> Building and Works Committee Meeting of the School of Planning and Architecture, New Delhi held on Monday, 12<sup>th</sup> July, 2021 at 4.00 p.m. in the New Committee Room of the SPA, Delhi (Offline / Online Mode)**

Sir/Madam,

I am directed to forward herewith Minutes of the 11<sup>th</sup> Building and Works Committee Meeting of School of Planning and Architecture, New Delhi held on Monday, 12<sup>th</sup> July, 2021 at 4.00 p.m. in the New Committee Room of the School. You are requested to kindly forward your comments on the Minutes of the Meeting, if any, within two weeks' time.

Yours faithfully,

**(Umakant Agarwal)**  
Registrar – Secretary

**Encl.:** As stated above

List of Members of BWC, SPA-D

1.	<b>Prof. Dr. P. S. N. Rao</b> Director-Chairman (BWC) SPA, New Delhi - 110002	5.	<b>Er. Rajesh Kumar</b> Superintending Engineer Central Public Works Department Office of Superintending Engineer Delhi Circle V, East Block-IV, Level-IV, R.K.Puram, New Delhi-110066
2.	<b>Shri Prashant Agarwal</b> Director(IIT) Ministry of Education Department of Higher Education Room No.427-C, Shastri Bhawan New Delhi-110001	6.	<b>Er. Anil Kumar Kain</b> Superintending Engineer(E) O/o Chief Architect(PRD) Central Public Works Department East Block-1, R.K.Puram New Delhi-110066
3.	<b>Prof. Dr. Nitin Dindorkar</b> Professor in the Deptt. of Civil Engineering Maulana Azad National Institute of Technology, Bhopal-462016	7.	<b>Shri Umakant Agarwal</b> Registrar-Secretary School of Planning and Architecture, New Delhi-110002
4.	<b>Prof. Dr. Aruna Ramani Grover</b> Dean (Planning & Development) School of Planning and Architecture, New Delhi-110002		

योजना तथा वास्तुकला विद्यालय : नई दिल्ली  
SCHOOL OF PLANNING AND ARCHITECTURE: NEW DELHI

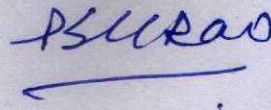
MINUTES OF THE 11<sup>TH</sup> MEETING OF **BUILDING & WORKS COMMITTEE** OF THE SCHOOL OF PLANNING AND ARCHITECTURE, NEW DELHI HELD ON MONDAY, 12<sup>TH</sup> JULY, 2021 AT 4.00 P.M. IN THE NEW COMMITTEE ROOM OF THE SCHOOL (OFFLINE / ONLINE MODE)

Present:

1.	Prof.Dr.P.S.N.Rao Director, SPA	Chairman
2.	Prof. Dr. Nitin Dindorkar MANIT, Bhopal	Member
3.	Prof.Dr.Aruna Ramani Grover Dean(P&D)	Member
4.	Er. Anil Kumar Kain SE(E), PWD, NCT of Delhi	Member
5.	Shri Rajesh Kumar SE(Civil), CPWD	Member
6.	Shri Umakant Agarwal Registrar	Registrar-Secretary

Shri Prashant Agarwal, Director, MoE could not attend due to his other commitments in the Ministry. However, the comments of Technical Section of the Ministry were received and placed before BWC. The same were discussed and duly incorporated in the Minutes of the BWC.

Further, the Director-Chairman informed the BWC that even after the construction of new campus at Vasant Kunj, the three existing / old campuses shall remain with the Institution and shall continue to be in use and therefore, their maintenance is necessary.



Director-Chairman welcomed the Members and called the Meeting to order.

11 <sup>th</sup> BWC ITEM NO.01:	TO CONFIRM THE MINUTES OF 10 <sup>TH</sup> BUILDING & WORKS SPECIAL COMMITTEE MEETING OF THE SCHOOL HELD ON 22 <sup>ND</sup> JANUARY, 2021 IN THE NEW COMMITTEE ROOM OF THE SCHOOL
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The Minutes of the 10<sup>th</sup> Building & Works Committee Special Meeting held on 22<sup>nd</sup> January, 2021 were confirmed.

11 <sup>th</sup> BWC ITEM NO.02:	TO CONSIDER ACTIONS TAKEN ON THE MINUTES OF 10 <sup>TH</sup> BUILDING & WORKS COMMITTEE MEETING OF THE SCHOOL HELD ON 22 <sup>ND</sup> JANUARY, 2021
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The BWC condoned the delay in works due to COVID-19 and lockdown. The BWC considered and approved the Action Taken Report on the Minutes of the 10<sup>th</sup> BWC held on 22.01.2021.

11 <sup>th</sup> BWC ITEM NO.03	<b>PLANNING BUILDING:</b>
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11 <sup>th</sup> BWC ITEM NO.3.1	NAME OF WORK: PROVIDING AND FIXING WOODEN CABINETS IN ARCHITECTURE CONSERVATION DEPARTMENT IN PLANNING BUILDING, SPA, NEW DELHI
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11 <sup>th</sup> BWC ITEM NO.3.2	NAME OF WORK: REPLACEMENT OF EXISTING WOODEN PARTITION WALL OF THE ROOM OF HOD OF TRANSPORT PLANNING DEPARTMENT AT PLANNING BUILDING OF SPA- NEW DELHI
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11 <sup>th</sup> BWC ITEM NO.3.3	NAME OF WORK: - PROVIDING AND FIXING WOODEN CABINETS IN SEMINAR ROOM / DEPARTMENT OF REGIONAL PLANNING DEPARTMENT IN PLANNING BUILDING, SPA, NEW DELHI
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The BWC advised to club the Items related to wood work and invite a single tender. In view of above, BWC considered and approved the following works to be awarded to a single contractor as per provisions of GFR 2017 and transparency guidelines / CVC Orders:

- a) Work at BWC Item No.3.1 - Providing and fixing wooden cabinets in Department of Arch. Conservation at a total cost of Rs.66,469/-.
- b) Work at BWC Item No.3.3 - Providing and fixing wooden cabinets in Seminar Room of Regional Planning Department at a total cost of Rs.57,477/-.

In addition, the following was approved:

Work at BWC Item No.3.2 - Replacement of existing wooden partition wall in the room of HOD, TP at a total cost of Rs.93,225/- (rounded off) and may be awarded the work to L1 contractor, M/s Bharat Construction Company as per CPWD norms.

11 <sup>th</sup> BWC ITEM NO.3.4	NAME OF WORK: - WHITEWASHING, PAINTING, AND WOODEN FLOORING IN DIC ROOM OF URBAN PLANNING DEPARTMENT IN PLANNING BUILDING OF SPA, NEW DELHI
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The BWC advised to retender the work, as the L<sub>2</sub> cannot be awarded the work at the price quoted by L<sub>1</sub>, as per CPWD norms.

The Director-Chairman informed that whitewashing and the painting works in the DIC Room of Urban Planning shall be carried out along with whitewashing and painting of other departments in the Planning Building.



The BWC recommended that the work of wooden flooring to be clubbed with (a) and (b) above to be awarded to a single contractor as per provisions of GFR 2017 and transparency guidelines / CVC Orders. The estimated cost of works as per DSR -2018 is Rs.66,321/-.

11 <sup>th</sup> BWC ITEM NO.04	<b>ARCHITECTURE BUILDING:</b>
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11 <sup>th</sup> BWC ITEM NO.4.1	<b>NAME OF WORK: - REPLACING OLD M.S. WINDOWS OF THE COMPUTER LAB AND DEPARTMENT OF INDUSTRIAL DESIGN WITH THE ALUMINUM WINDOWS IN ARCHITECTURAL BUILDING OF SPA, NEW DELHI</b>
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It was informed that the estimate for the work has been prepared on the basis of DSR-2016 with additional cost index and labor cess. The BWC advised to revise the estimate based on latest DSR-2018 before placing the same before the FC / BOG.

The BWC considered and approved the work of repairing / replacing of M.S. Windows in the Computer Lab and Department of Industrial Design, at a revised estimated cost based on DSR-2018, through E-tendering (CPP Portal), as per provisions of GFR 2017 and CVC guidelines. The estimated cost of works as per DSR -2018 is Rs.8,08,093/-.

11 <sup>th</sup> BWC ITEM NO.4.2	<b>NAME OF WORK: MISCELLANEOUS REPAIR WORKS AT ARCHITECTURE &amp; PLANNING BUILDING</b>
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It was informed that the estimate for the work has been prepared on the basis of DSR-2016 with additional cost index and labor cess. The BWC advised to revise the estimate based on latest DSR-2018 before placing the same before the FC / BOG.

The BWC considered and approved the miscellaneous works at different Departments of Studies (Planning and Architecture Buildings) at a revised estimated cost based on DSR-2018, through E-tendering (CPP Portal), as per provisions of GFR 2017 and CVC guidelines. The estimated cost of works as per DSR -2018 is Rs.6,71,821/- including 5% cost Index and 1% Labour Cess (Annexure-11BWC/I).

11 <sup>th</sup> BWC ITEM NO.05	<b>MAHARANI BAGH COMPLEX:</b>
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11 <sup>th</sup> BWC ITEM NO.5.1	<b>PROVIDING AND FIXING OF MS SAFETY GATES IN THE FLATS OF SPA RESIDENTIAL COMPLEX AT MAHARANI BAGH</b>
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It was informed that the estimate for the work has been prepared on the basis of DSR-2016 with additional cost index and labor cess. The BWC advised to revise the estimate based on latest DSR-2018 before placing the same before the FC / BOG.

The BWC considered and approved the work of providing and fixing of MS Safety Gates in the flats of the SPA Residential Complex at Maharani Bagh at a revised estimated cost based on DSR-2018, through E-tendering (CPP Portal), as per provisions of GFR 2017 and CVC guidelines. The estimated cost of works as per DSR -2018 is Rs.8,77,571/- including 5% cost Index and 1% Labour Cess (Annexure-11BWC/II).

11 <sup>th</sup> BWC ITEM NO.5.2	<b>NAME OF WORK:- MISCELLANEOUS REPAIR WORKS AT RESIDENTIAL COMPLEX AND COMMUNITY CENTRE AT M.B. COMPLEX</b>
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The BWC advised to revise the estimate based on latest DSR-2018 before placing the same before the FC / BOG.

The BWC considered and approved the miscellaneous repair works at the Residential Complex and Community Centre at Maharani Bagh Complex at a revised estimated cost based on DSR-2018, through E-tendering (CPP Portal), as per provisions of GFR 2017 and CVC guidelines. The estimated cost of work as per DSR-2018 is Rs.7,03,228/- including 5% cost Index and 1% Labour Cess (Annexure-11BWC/III).



11 <sup>th</sup> BWC ITEM NO.06	<b>THE WORKS PROPOSED TO BE EXECUTED THROUGH CPWD AS DEPOSIT WORKS:</b>
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11 <sup>th</sup> BWC ITEM NO.6.1	ESTIMATE FOR REPLACEMENT OF 500 KVA TRANSFORMER & ELECTRIC PANEL INCLUDING ALLIED CABLING WORKS AND 62.5 KVA DG SET INCLUDING CABLING WORKS AT ARCHITECTURE BUILDING, PLANNING BUILDING, MAHARANI BAGH CAMPUS OF SCHOOL OF PLANNING AND ARCHITECTURE, NEW DELHI-110002
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The Members of the BWC were informed that the work involves installation of 500 KVA transformers and 62.5 KVA DG set including allied cabling works at three campuses of the Institution through CPWD at an estimated cost of Rs.1,53,61,125/-.

The Members inquired about the load adequacy and existing load requirement of each campus separately. Before finalising the proposal, the BWC Members inquired about the assessment whether there is a requirement for higher capacity transformers or existing capacity transformers would suffice.

The BWC advised to seek the clarifications pending from CPWD, whether the replacement of parts is included in the estimate/agreement or involves extra payment; summary sheet for each Campus with name of work and amount for each work; advance payments to CPWD and the budgetary requirement of funds for this work should be sought from the MoE as a special grant in the next financial year; and agreement conditions should be revisited.

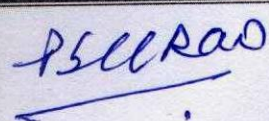
Considering the above, the BWC deferred this item at this stage and advised to put up the same in the next BWC Meeting after obtaining clarifications from CPWD.

11 <sup>th</sup> BWC ITEM NO.07	<b>CURRENT STATUS OF ONGOING WORKS IN SPA-D</b>
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The BWC noted the current status of on-going works in the School.

The Meeting ended with vote of thanks to the Chair.

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Name of work:- Miscellaneous work at Planning & Architecture Building SPA New Delhi									
Schedule Of Work									
DSR ITEM NO	S.No.	Desceraption	Unit	Qty.	Rate AS PER DSR- 2016	AmountAS PER DSR- 2016	Rate AS PER DSR- 2018	Amount AS PER DSR- 2018	Remarks
14.75/249	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 :							
		1. With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	20	368.9	7378.00	512	10240.00	
14.6.2/242	2	Renewing glass panes, with wooden fillets wherever necessary:				0.00		0.00	
	~	5.5 mm thick glass panes	sqm	10	1113.25	11132.50	1557.35	15573.50	
14.8.2/242	3	Supplying and fixing new wooden fillets wherever necessary:				0.00		0.00	
		14.8.2 Hollock wood fillets	metre	30	34.20	1026.00	54.70	1641.00	
14.9/243	4	Renewal of old putty of glass panes (length)	metre	50	25.45	1272.50	42.60	2130.00	
14.45/246	5	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				0.00		0.00	
		Old work (one or more coats)	sqm	800	33.35	26680.00	54.30	43440.00	
14.46/243	6	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	400	10.8	4320.00	18.25	7300.00	
14.53/247	7	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :				0.00		0.00	
		One or more coats on old work	sqm	700	55.25	38675.00	84.65	59255.00	
13.61.1/232	8	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				0.00		0.00	
		One or more coats on old work	sqm	550	78.4	43120.00	121.55	66852.50	
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.				0.00		0.00	
		One or more coats on old work	sqm	650	29.8	19370.00	48.65	31622.50	
14.64.1/248	10	Finishing walls with water proofing cement paint of required shade :				0.00		0.00	
		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	400	55.7	22280.00	87.2	34880.00	
5.1.1/111	11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				0.00		0.00	
		Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	2	4,970.30	9940.60	6,376.25	12752.50	
5.4.1/111	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 :				0.00		0.00	
		Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	2	5,801.50	11603.00	7,809.25	15618.50	
5.13.2/112	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.				0.00		0.00	
		Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	10	684.20	6842.00	932.10	9321.00	

997.2/158	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	103.55	3106.50	
9100.2/159	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	52.85	528.50	
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	131	13100.00	
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	35	386.2	13517.00	587.2	20552.00	
18.49.1/334	18	18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 18.49.1 15 mm nominal bore	each	10	371.7	3717.00	418.95	4189.50	
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	532	5320.00	
18.10.1/326	20	18.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 18.10.1 15 mm dia nominal bore	metre	30	186.4	5592.00	284.9	8547.00	
		18.10.2 20 mm dia nominal bore	meter	30	224.15	6724.50	344.1	10323.00	
		18.10.5 40 mm dia nominal bore	meter	20	394.15	7883.00	639.6	12792.00	
		18.10.6 50 mm dia nominal bore	meter	20	472.4	9448.00	786.75	15735.00	
18.21.1/328	21	18.21 Providing and fixing uplasticised PVC connection pipe with brass unions : 18.21.1 30 cm length 18.21.1.1 15 mm nominal bore	each	10	59.4	594.00	72.85	728.50	
18.18.1/327	22	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				0.00		0.00	
		18.18.1 15 mm nominal bore	No	30	287.25	8617.50	338.7	10161.00	
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:				0.00		0.00	
		17.7.2 White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	No	2	2020.6	4041.20	2751.3	5502.60	
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 : 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	No	2	3494.2	6988.40	5421.5	10843.00	
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 : 7231, 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	2	3418.7	6837.40	5260.95	10521.90	

Analysed 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	Sqm	25	1165.7	29142.50	1223.985	30599.63	
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 Kiln seasoned and chemically treated hollock wood 50x20 mm	Metre	50	118.35	5917.50	232.15	11607.50	
Analysed items based on DSR	28	Providing and fixing 6mm thick commercial p;y wood with nails on existing wooden frame complete as per entire satisfaction of the engineer in charge.	Job	10	1064.7	10647.00	1117.935	11179.35	
Analysed 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	35	1500	52500.00	1575	55125.00	
Analysed items based on DSR	30	Providing and fixing of Sun control film on glasses as per the required shade and entire satisfaction of engineer In Charge.	sqm	25	295	7375.00	309.75	7743.75	
2.7	31	2.7 Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. 2.7.1 Ordinary rock	cum	10	221.05	2210.50	352.45	3524.50	
4.1	32	4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :4.1.2 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	2	5924.65	11849.30	7210.55	14421.10	
4.1.3	33	4.1.3 "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cum	2	5481.95	10963.90	6768.6	13537.20	
19.18	34	19.18 Supplying and fixing C.I. cover without frame for manholes : 19.18.1 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	5	1227.15	6135.75	1326.25	6631.25	
19.19	35	19.19 Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1 L D- 2.5 19.19.1.1 Rectangular shape 600x450 mm internal dimensions	each	5	1073.05	5365.25	1228.9	6144.50	
19.19.2	36	19.19.2 M D - 10 19.19.2.1 Square shape 450 mm internal dimension	each	5	1079.35	5396.75	1027.25	5136.25	
14.76	37	14.76 Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	each	25	47.55	1188.75	77.65	1941.25	

11.4	38	11.4 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	30	555.25	16657.50	787.5	23625.00
		Total				459395.30		633793.28
		Add 22.549% Cost Index				103589.05	Add Cost Index 5%	31689.66
		1% labour Cess				4593.95		6337.93
		Grand total				567578.30		671820.87
		Say Rupees				567578		671821



Assistant Engineer (Civil)

## SCHEDULE OF WORK

PROVIDING &amp; FIXING M.S GRILLED SHUTTERS IN SPA FLATS AT MAHARANI BAGH SPA COMPLEX

DSR	S.NO	DESCRIPTION	UNIT	QTY	RATE PER DSR-16	AMOUNT PER DSR-16	RATES AS PER DSR-18	AMOUNT PER DSR-18	REMARKS
	1	Providing and fixing MS wire gauge grilled shutters with frame of MS angle 40x40x6mm including fixing of 8mm square bars welded horizontally at 100mm center to center. These bars shall be braced together with MS Flats of size 20x6mm vertically. 250mm wide MS Plate of 1 mm thickness shall be welded on MS angles of size 40x40x6mm for making locking arrangements with necessary lock, Sliding bolts, Handles, hinges etc. The door shall be provided galvanised MS Wire gauge with MS Flats of 15x3mm with nuts and bolts complete. A 100 mm wide strip of plywood 04mm thick one side decorative veneering be fixed over the MS Plate of lock rail with screws with brass caps etc. Complete as per directions of the Engineer incharge. PROFIEL (A)	Sqm	26.46	3967.04	104967.9	5272.32	139505.6	
		Providing and fixing MS wire gauge grilled shutters with frame of MS angle 40x40x6mm including fixing of 8mm square bars welded horizontally at 100mm center to center. These bars shall be braced together with MS Flats of size 20x6mm vertically. 250mm wide MS Plate of 1 mm thickness shall be welded on MS angles of size 40x40x6mm for making locking arrangements with necessary locks, Sliding bolts, Handles, hinges etc. The door shall be provided galvanised MS Wire gauge with MS Flats of 15x3mm with nuts and bolts complete. A 100 mm wide strip of plywood 04mm thick one side decorative veneering be fixed over the MS Plate of lock rail with screws with brass caps etc. Complete as per directions of the Engineer incharge. PROFIEL (A)	Sqm	102.05	4904.39	500493	6439.52	657153	
		Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				0		0	
13.61.	1	Two or more coats on new work.	Sqm	257	78.40	20148.8	121.55	31238.35	
		TOTAL				625609.7		827897	
		ADD 12.74% COST INDEX				23380.32	Add 5% cost index	41394.85	
		1% LABOUR CESS				6256.097		8278.97	
		GRAND TOTAL				655246.1		877570.8	
		SAY TOTAL				655246		877571	



Assistant Engy (Civil)

## SCHEDULE OF WORK

Project:- Miscellenious work at Residential Building &amp; community centre SPA New Delhi.

DSR-ITEM	S.No.	Description of work	Unit	Qty	Rate AS PAR DSR-2016	Amount AS PAR DSR-2016	Rate AS PAR DSR-2018	Amount AS PAR DSR-2018	REMARKS
14.46/246	1	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	500	10.8	5400	18.25	9125	
14.63.1/248	2	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	1000	29.8	29800	48.65	48650	
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	450	53.15	23917.5	87.15	39217.5	
14.54/247	4	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an even shade : One or more coats on old work	sqm	300	51.3	15390	79.95	23985	
13.61.1/232	5	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm	30	78.4	2352	121.55	3646.5	
14.64/248	6	Finishing walls with water proofing cement paint of required shade : Old work (one or more coats @ 2.20 kg/10 sqm) complete.	sqm	75	37.9	2842.5	59.35	4451.25	
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	300	55.25	16575	84.65	25395	
13.80/234	8	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	200	87.35	17470	115.15	23030	
13.43/230	9	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer.	sqm	200	36.95	7390	60	12000	
15.56/258	10	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	50	22.4	1120	39	1950	

11/242	11	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	50	264.8	13240	417.8	20890
14/230	12	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	50	58.8	2940	91.25	4562.5
11/148	13	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	Sqm	20	1559.75	31195	1886.7	37734
13/144	14	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	1.00	54930.25	54930.25	71746.4	71746.4
197.2/158	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	20	88.10	1762.00	103.55	2071
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	52.85	528.5
96/158	17	Providing and fixing aluminium sliding door 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 nuts and screws etc. complete : 300x16 mm	each	10.00	212.45	2124.5	257.15	2571.5
4.1.2/88	18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	qum	1	5924.65	5924.65	7210.55	7210.55

Analyse Items based on DSR	19	Grouting in brick tiles over mummy roofs, with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat	sqm	200	190.9	38180	200.445	40089	
12.21.1/211	20	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	metre	75	153	11475	237.25	17793.75	
14.6.1/ 242	21	Renewing glass panes and refixing existing wooden fillets: Float glass panes of thickness 4 mm	sqm	20	852.6	17052	1263	25260	
12.22/211	22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Nos	10	187.6	1876	244.05	2440.5	
15.60/258	23	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	10	120.55	1205.5	138.85	1388.5	
16.89/280	24	Providing and laying ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of ist quality confirming to IS 15622 of approved make in colors such as White, Ivory , Grey, Fume Red brown ,laid on 20 mm thick bed of cement mortar 1:4 (1 Cement: 4 Coarse sand ,)including pointing the joints with white cement and matching pigments etc complete	sqm	25	764	19100	1264.8	31620	
9.48/152	25	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 openings /wooden frames with rawl plugs screws etc.	kg	75	112.45	8433.75	183.5	13762.5	
Analyse Items based on DSR	26	Renewing, cutting and fixing 3mm to 4mm thick fiber glass sheet with existing wooden fillets nails etc.	Sqm	20	1212.48	24249.6	1273.104	25462.08	



15.2/255	27	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 meters lead For thickness of tiles 10 mm to 25 mm	sqm	30	31.55	946.5	54.85	1645.5	
11.36/196	28	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	25	744.8	18620	1030.3	25757.5	
10.25.2/185	29	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	131	13100	
6.13.2/112	30	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	5	684.20	3421	932.1	4660.5	
6.4.1/111	31	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)	qum	2	5,801.50	11603	7809.25	15618.5	
18.49.1/334	32	18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 18.49.1 15 mm nominal bore	each	5	371.7	1858.5	418.95	2094.75	
18.53.1/334	33	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	5	475.7	2378.5	532	2660	
18.10.1/326	34	18.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 18.10.1 15 mm dia nominal bore	metre	25	186.4	4660	284.9	7122.5	
		18.10.2 20 mm dia nominal bore	meter	30	224.15	6724.5	344.1	10323	
		18.10.5 40 mm dia nominal bore	meter	20	394.15	7883	639.6	12792	
		18.10.6 50 mm dia nominal bore	meter	20	472.4	9448	786.75	15735	
18.18.1/327	35	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	10	287.25	2872.5	338.7	3387	

17.7.2/293	36	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.	3	2020.6	6061.8	2751.3	8253.9
17.2.1/292	37	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: 17.2.1 W.C. pan	No.	3	3418.7	10256.1	5260.95	15782.85
17.1.1/292	38	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	No.	2	3494.2	6988.4	5421.5	10843
9.40.2/151	39	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 Kiln seasoned and chemically treated hollock wood 50x20 mm	Metre	25	118.35	2958.75	173.15	4328.75
9.37/151	40	9.37 Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with : 9.37.1 Decorative veneer facings of approved manufacture.	Sqm	5	1030.7	5153.5	1551	7755
17.4/292	41	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.1 One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	1	3494.15	3494.15	4982.25	4982.25
		<b>Total</b>				<b>470319.45</b>	<b>663423</b>	

	Add 22.549% cost index				106052.33	Add Cost Index 5 %	33171.15
	Add 1% Labour Cess				4703.19		6634.23
	Grand Total				581074.98		703228.4
	Say Rupees				581075		703228

  
Assistant Engg. (Civil)