

## Schedule of Quantities

N/W	Minor modification to facilitate Boat garage at ground floor of Admin building at IIG Panvel Campus.					
SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
SH 1	CEMENT CONCRETE (CAST IN SITU)					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
1.1	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	0.50	cum	7294.70	3647	4.1.5
SH 2	REINFORCED CEMENT CONCRETE					5
2	Reinforced cement concrete work in beams, suspended foors, roofs having slope up to 15* landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to four five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	0.25	cum	11505.50	2876	5.3
3	Centering and shuttering including strutting, propping etc. and removal of form for					5.9
3.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	2.60	sqm	736.40	1915	5.9.5
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					5.22A
4.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	50.00	kg	107.85	5393	5.22A.6
SH 3	MASONRY WORK					6
5	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry with 150mm/230mm/300 mm thick with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	2.50	cum	8333.65	20834	6.47
SH 4	CLADDING WORK					8

6	Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.	5.00	sqm	3135.00	15675	8.17
SH 5	WOOD AND P. V. C. WORK					9
7	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :					9.71.
7.1	100x60x2.50 mm	6.00	each	106.35	638	9.71.2
8	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : (copper oxidized as per IS: 1378)					9.62
8.1	250x16 mm	4	each	193.70	775	9.62.2
9	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	2	each	983.15	1966	9.84
10	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 :					9.97
10.1	300x10 mm	4	each	130.10	520	9.97.1
11	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 :					9.1
11.1	100 mm	4	each	59.55	238	9.100.2
12	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.					9.101
12.1	Twin rubber stopper	2	each	72.35	145	9.101.2

SH 6	STEEL WORK					10
13	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.					10.6
13.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	7	sqm	3653.20	25572	10.6.1
14	Providing and fixing ball bearing for rolling shutters.	2	each	492.35	985	10.7
15	Providing and fixing carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.					10.27
15.1	10 x 140 mm	12	each	182.20	2186	10.27.4
SH 7	FLOORING					11
16	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) :					11.26
16.1	25 mm thick	16	sqm	1948.25	31172	11.26.1
17	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	0.50	sqm	2354.70	1177	11.27
SH 8	FINISHING					13
18	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
18.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	6	sqm	171.10	1027	13.47.1
19	Applying priming coat:					13.5
19.1	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	14	sqm	67.40	944	13.50.3

20	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					13.62
20.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	24	sqm	226.25	5430	13.62.1
21	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.	55	sqm	156.05	8583	13.80
22	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.82
22.1	Two coats	55	sqm	137.45	7560	13.82.2
SH 9	REPAIRS TO BUILDING					14
23	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.					14.4
23.1	For door/ window/ clerestory window	2.60	sqm	1264.35	3287	14.4.1
SH 10	Dismantling and Demolishing					15
24	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.	3.00	sqm	54.65	164	15.56
SH 11	NEW TECHNOLOGIES AND MATERIALS					26
25	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.					26.3
25.1	Upto and including 12mm dia.	12	each	141.20	1694	26.30.1

26	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/clerestory windows & desertory other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/ cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm <sup>2</sup> , modulus of elasticity 900 N/mm <sup>2</sup> and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.					
26.1	Frame size 65 x 100 mm	10.50	metre	947.70	9951	26.86.5
27	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm <sup>2</sup> , modulus of elasticity 850 N/mm <sup>2</sup> and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)					
27.1	35 mm thick	9.00	sqm	5015.35	45138	26.87.2

SH 12	NON SCHEDULE					
28	Providing and plastering with premixed polymerized readymade cement mortar of approved brand / make, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). In one coat. 6 to 7 liter potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix.					50.2
28.1	15 mm average thickness	8.00	sqm	642.15	5137	50.2.3
29	Providing and plastering with premixed readymade cement mortar of approved brand / make, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). <b>18 mm average thickness</b> in two coats under layer 12 mm thick cement plaster and top layer 6 mm thick cement plaster finished rough with spong 6 to 7 liter potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix.	6.00	sqm	782.15	4693	50.3
30	Remodelling existing aluminium window of area 3.00 sq metres or below by cutting the extra member of aluminium window and attached MS grill including welding extra MS member wherever necessary and fixing in position with required screw/bolt etc. complete	2	each	1000.00	2000	50.55
31	Painting monogram at complete outside area of rolling shutter with synthetic enamel paint of approved brand and manufacture of required colour as per direction of IIG authority i/c cost of paint etc.	1	job	5000.00	5000	51.5
	Total				216322	
	Add Cost Index @15% on SR&DR Items = i.e on Rs.	199,492			29,924	
	<b>Total</b>				<b>246,246</b>	

**Rs.Two Lakh Forty Six Thousand Two Hundred Forty Six Only including GST and other Taxes.**

Add or deduct \_\_\_\_\_ % Above / \_\_\_\_\_ % Below the Estimated cost

Name, Sign and Seal of the Agency