

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	In all types of soils.SOR Item No. 1.1.1	458.73	Cum	185.00	84865.05
2	Extra for every additional lift of 1.5 m or part thereof.				
	All types of soils. SOR Item No. 1.1.1	91.18	Cum	26.50	2416.27
3	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.SOR Item No. 1.17	414.82	Cum	65.00	26963.30
4	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.SOR It. No. 1.18	41.25	Cum	371.00	15303.75
5	Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. SOR ITEM NO. 1.19	27.50	Cum	242.00	6655.00
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).SOR Item No. 3.1.2	24.27	Cum	2659.00	64533.93
7	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.SOR It. No. 2.1.1	130.30	Sqm	139.00	18111.70
8	Columns, Pillars, Piers and likes- rectangular or square in shape SOR It. No. 2.1.5	335.53	Sqm	297.00	99652.41
9	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.SOR It. No. 3.2.1				

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	1:1/3 (1 cement : 1/ coarse sand : 3 graded stone aggregate 20mm nominal size).	119.32	Cum	4163.00	496729.16
10	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:SOR It. No. 3.12.2				
	Thermo-Mechanically treated bars FE 500D	13951.06	Kilogram	54.50	760332.77
11	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:SOR It. No. 7.5.4				
	Cement Mortar 1:6 (1 cement : 6 coarse sand)	77.55	Cum	3263.00	253045.65
12	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm.Plain/ normal coloured precast interlock concrete block.SOR ITEM No. 12.65.1	82.20	Sqm	436.00	35839.20
13	Providing and fixing precast compressed plain cement concrete edge restraint block of size 500mmx250mmx60mm of compressive strength of 200kg per sq.cm manufactured by electro hydraulically operated block machine by excavated trench of 150mm depth, laid width wise etc. complete.SOR ITEM No. 12.66	50.00	metre	169.00	8450.00
14	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: SOR Item No 3.4				
	Ground Floor Level Marked As 'J1'	31.80	Cum	97.50	3100.50
	First Floor Level Marked As 'J2'	27.27	Cum	195.00	5317.65
	Second Floor Level Marked As 'J3'	5.59	Cum	292.50	1635.08
15	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
A	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ) SOR It. No. 2.1.7	261.86	Sqm	235.00	61537.10
B	Beams, lintels, cantilevers & walls. SOR Item No 2.1.8	243.67	Sqm	202.00	49221.34

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C	Stair cases of all types excluding spiral and folded plate type, including risers and landings. <b>SOR Item No.2.1.15</b>	30.24	Sqm	230.00	6955.20
D	Window sills, anchor blocks, string course, bends, copings, bed plates and like. <b>SOR Item No.2.1.3</b>	35.04	Sqm	184.00	6447.36
E	Weather shade, chhajja, Cornices and mouldings. <b>SOR Item No.2.1.13</b>	19.77	Sqm	294.00	5812.38
16	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth: <b>SOR Item. No. 7.6</b>				
	For GF	29.98	Cum	121.00	3627.58
	For FF	28.33	Cum	242.00	6855.86
	For SF	17.89	Cum	363.00	6494.07
17	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level: <b>SOR Item. No. 7.11.2</b>				
	Cement Mortar 1:4 (1 cement : 4 coarse sand)	58.27	Sqm	382.00	22259.14
18	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level: <b>SOR Item 7.12</b>				
	For GF	33.74	Sqm	11.00	371.14
	For FF	24.53	Sqm	22.00	539.66
19	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry. <b>SOR item No 7.20</b>	58.27	Sqm	62.50	3641.88
20	Providing and making 6 mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand). <b>SOR Item No 11.1.2</b>	555.27	Sqm	87.00	48308.49
21	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand). <b>SOR Item No. 11.2.4</b>	408.16	Sqm	91.50	37346.64
22	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand). <b>SOR Item No. 11.3.4</b>	816.26	Sqm	107.00	87339.82
23	Providing and making 18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:				

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A	Flush Band <b>SOR Item No 11.32.1</b>	50.00	Mtr	2.50	125.00
B	Raised Band <b>SOR Item No 11.32.3</b>	50.00	Mtr	3.30	165.00
24	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : <b>SOR Item No 10.41</b>	36.80	Mtr	68.00	2502.40
25	Neat cement punning <b>SOR Item No. 11.5</b>	263.49	Sqm	33.00	8695.17
26	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height. <b>SOR Item No. 11.41</b>	189.33	Sqm	86.00	16282.38
27	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC, kitchen and the like consisting of:				
	i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 including rounding off junction of vertical and horizontal surface.				
	ii) 2nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound including rounding off junction of vertical and horizontal surface.				
	iii) 3rd course of applying blown or residual bitumen applied hot @ 1.7 Kg. per sqm of area.				
	iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg. per sqm of area. <b>SOR Item No. 4.3</b>	5.00	Sqm	445.00	2225.00
28	Grading roof for water proofing treatment with:				
A	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) . <b>SOR item No.4.13.1</b>	7.73	Cum	3817.00	29505.41

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<b>B</b>	Providing post water proofing treatment against dampness & Seepage in roof, terraces, sunken floor of toilets with reinforced acrylic breathable (polymer content 35%, elongation at break at > 100%) coating consisting of following operations: i) Removing loose material and cleaning the surface. ii) Priming in one coat with water based acrylic emulsion. iii) Three coats with reinforced acrylic breathable polymer. SOR ITEM No. 4.21	154.56	Sqm	611.00	94436.16
<b>29</b>	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.SOR ITEM No. 3.14	150.00	Kg	43.50	6525.00
<b>30</b>	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately: SOR Item No. - 9.47.1	297.12	Kg	331.00	98346.72
<b>31</b>	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). SOR Item No. 9.47.2	185.70	Kg	338.00	62766.60
<b>32</b>	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	482.82	Kg	27.00	13036.14
<b>33</b>	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness. SOR Item No. 9.51.2	37.14	Sqm	708.00	26295.12
<b>34</b>	Filling the gap in between aluminium frame and adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width MP PWD SOR it 21.9.1/p364	102.00	Metre	73.80	7527.60

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35	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.				
	SS Grade 304 SOR Item No.9.57.2	155.52	Kg	525.00	81648.00
36	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.SOR Item No. 9.15	967.65	Kg	67.50	65316.38
37	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete. SOR it 9.34				
	With 12 mm mild steel U beading.	36.57	Sqm	791.00	28926.87
38	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.				
A	Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.SOR Item No. 9.18.3	41.00	Metre	391.00	16031.00
B	Double rebate 115mmx50mm size, 1.6mm thick sheet . SOR Item No. 9.18.5	15.30	Metre	528.00	8078.40
39	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.				
A	35 mm. thick (single leaf). SOR Item No. 8.13.2	2.10	Sqm	1370.00	2877.00
B	30 mm. thick (single leaf). SOR Item No. 8.13.3	13.93	Sqm	1197.00	16674.21

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40	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance $\pm 1\text{mm}$ ) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$ , corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size $19 \times 19\text{mm}$ and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge				
	Extruded section Profile size 42x50 mm.SOR Item No. 8.148.2	24.75	Mtr	196.00	4851.00
41	Providing and fixing factory made 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of $1\text{mm} \pm 0.3\text{mm}$ . PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification. SOR ITEM No. 8.150	7.88	Sqm	2583.00	20354.04
42	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.				
	25 mm. thick (double leaf for cupboard shutters with piano type hinges. SOR Item No.8.13.5	18.90	Sqm	1092.00	20638.80
43	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.SOR Item No.9.13	66.15	kg	75.00	4961.25
44	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.				

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A	300mm SOR Item No. 8.137.1	15.00	each	238.00	3570.00
B	250mm SOR Item No. 8.137.1	15.00	each	228.00	3420.00
45	Providing and fixing powder coated aluminium sliding door bolts with 16mm rod, necessary M.S. nuts bolts and screws etc complete. 8.126.2 250x16mm. SOR ITEM No. 8.126	5.00	each	150.00	750.00
46	Providing and fixing powder coated aluminium door latch with 12mm rod, necessary M.S. nuts bolts and screws etc complete. 250x12mm. SOR ITEM No. 8.127	5.00	each	54.50	272.50
47	Providing and fixing powder coated aluminium door handles 2.5mm thick with necessary M.S. screws etc complete. 125 mm . SOR ITEM No. 8.129.2	10.00	each	27.50	275.00
48	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.				
	125 mm .SOR Item No. 8.140.2	28.00	each	22.50	630.00
49	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.				
	250 x10mm SOR Item No. 8.139.1	28.00	each	97.00	2716.00
50	Providing & fixing 150mm antique/ SS finished brass floor door stopper with rubber cushion and antique/ SS polished MS screw complete to suit the shutter thickness. SOR Item No. 8.90				
	Twin rubber stopper	24.00	each	77.00	1848.00
51	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.				
	Size 300x300mm. SOR Item No. 12.9.1	23.41	Sqm	692.00	16199.72
52	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall 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 matching pigment complete.				
	Size above 200x300mm. SOR Item No.12.7.2	224.91	Sqm	646.00	145291.86



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53	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.				
	Size 600x600mm. <b>SOR Item No.12.13.1</b>	256.84	Sqm	1151.00	295622.84
54	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 sand) 25 mm thick.(Area of slab to be over 0.25 sqm) <b>SOR ITEM No 12.49</b>	23.76	Sqm	897.00	21312.72
55	Kota stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (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 slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado up to length of 1.0 M.). <b>SOR Item No.12.50</b>	6.84	Sqm	990.00	6771.60
56	Extra for nosing in steps and treads of Kota stone slab. <b>SOR Item No.12.51</b>	45.60	meter	69.50	3169.20
57	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above) <b>SOR Item No. 12.45.2</b>				
	Granite stone black	8.58	Sqm	2646.00	22702.68
58	Mirror polishing on marble work/ Kota stone/ Granite work where ever required to give high gloss finish complete. <b>SOR ITEM NO. 13.22.2</b>	36.30	Sqm	207.00	7514.10
59	Extra for providing edge moulding to 15mm thick stone counters, vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. <b>SOR Item No. 13.19.2</b>				
	Granite work.	36.30	RM	172.00	6243.60

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60	Extra for making opening of required size & shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including making necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.SOR Item No.13.21	1.00	Each	253.00	253.00
61	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)SOR it 12.45.1				
	Granite stone grey/pink	0.54	Sqm	1796.00	969.84
62	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade.				
	On new work (two or more coats). SOR Item No.14.11.1	1511.89	Sqm	52.50	79374.23
63	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.SOR Item No. 14.13	1511.89	Sqm	94.50	142873.61
64	Painting on new work (two or more coats) to give an even shade with:				
	Premium synthetic enamel paint. SOR Item No.14.22.2	77.07	Sqm	47.00	3622.29
65	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:				
	On 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). SOR Item No. 14.15.1	458.96	Sqm	56.00	25701.76
66	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c 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.INTERNAL WORK - EXPOSED ON WALL.				
A	25 mm nominal outer dia .Pipes.SOR Item No.19.4.3	18.00	Meter	199.00	3582.00
B	20 mm nominal outer dia .Pipes.SOR Item No.19.4.2	13.65	Meter	137.70	1879.61

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67	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c 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. 40 mm nominal outer dia. Pipes. <b>Sor item no. 19.4.5</b>	20.00	Meter	362.00	7240.00
68	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. CONCEALED WORK including cutting chases and making good the walls etc.,				
A	20 mm nominal outer dia .Pipes. <b>SOR Item No.19.5.2</b>	50.00	Meter	167.00	8350.00
B	15 mm nominal outer dia .Pipes. . <b>SOR Item No.19.5.1</b>	25.00	Meter	133.00	3325.00
69	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:				
A	Bib cock (400 grams). <b>SOR Item No. 19.14.1</b>	5.00	Each	382.00	1910.00
B	Long body bib cock (500 grams) <b>SOR Item No.19.14.3</b>	2.00	Each	426.00	852.00
C	Angle valve for basin mixer and geyser points (450 grams). <b>SOR Item No. 19.14.7</b>	12.00	Each	382.00	4584.00
D	Stop cock (concealed) (600 grams)				
E	15 mm nominal bore <b>SOR Item No. 19.14.6</b>	5.00	Each	494.00	2470.00
F	Shower rose (revolving type) (150mm) <b>SOR Item No.19.14.15</b>	2.00	Each	269.00	538.00
G	Health foscet (hand jet) with flexible connection pipe (for WC) <b>SOR Item No.19.14.19</b>	5.00	Each	774.00	3870.00
H	Towel rail (600mm long x 20mm dia) <b>SORE Item No. 19.14.16</b>	5.00	each	338.00	1690.00
I	Piller Cock (400 grams). <b>SOR Item No.19.14.4</b>	5.00	Each	398.00	1990.00
70	Providing and fixing CPVC gate valve with knob of approved quality.				
A	25 mm nominal bore <b>SOR ITEM NO. 19.6.1</b>	2.00	Each	436.00	872.00
B	40 mm nominal bore <b>SOR ITEM NO. 19.6.3</b>	1.00	Each	596.00	596.00
71	Providing and fixing CPVC gate valve with knob of approved quality.				
A	25 mm nominal bore <b>MP PWD SOR it 18.34.1/p 326</b>	1.00	Each	385.20	385.20

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
B	40 mm nominal bore SOR it 18.34.3/p 326	1.00	Each	525.60	525.60
72	Providing and fixing 600x450 mm beveled edge 4mm 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.SOR Item No. 18.29	5.00	each	599.00	2995.00
73	Cutting holes more than 20x20 cm and upto 30x30 cm in walls including making good the same :SOR Item No. 19.43	10.00	Each	125.00	1250.00
74	Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.SOR Item No. 19.44	10.00	Each	94.00	940.00
75	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
	White pedestal type. SOR Item No.18.4.1	5.00	Each	2882.00	14410.00
76	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :				
A	White Size 550x450 mm. SOR Item No.18.17.1	2.00	Each	1430.00	2860.00
B	White Oval or round size 550x400mm.SOR Item No.18.17.5	3.00	each	1605.00	4815.00
77	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:				
	Flat back half stall urinal of size 460x380x250mm. SOR Item No.18.13.1	1.00	Each	1776.00	1776.00
78	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :SOR Item No.18.22.2				
	560x410 mm bowl depth 215 mm.	1.00	Each	6210.00	6210.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
79	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin				
	32 mm dia. <b>SOR Item No.18.25.1</b>	6.00	Each	68.50	411.00
80	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
A	"P" trap 110mmx110mm long.SOR Item No.18.77.5	6.00	Each	227.00	1362.00
B	Nahani trap 110x75mm.SOR Item No.18.77.6	15.00	Each	90.50	1357.50
81	Providing and fixing 15 mm nominal bore unplasticised PVC connection pipe with PTMT nuts and PVC bush of approved quality and colour:				
	45 CM length. <b>SOR Item No.18.10.2</b>	15.00	Each	66.50	997.50
82	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. <b>SOR Item No.19.42</b>	1500.00	Ltr.	7.30	10950.00
83	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore. <b>SOR Item No.19.17.2</b>	2.00	Each	394.00	788.00
84	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.				
	75 mm dia pipe. <b>SOR Item No.18.76.1</b>	5.50	Meter	182.00	1001.00
	110 mm dia pipe. <b>SOR Item No.18.76.2</b>	48.00	Meter	267.00	12816.00
85	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
A	75 mm. <b>SOR Item No.18.77.1.1</b>	15.00	Each	113.00	1695.00
B	110 mm. <b>SOR Item No.18.77.1.2</b>	25.00	Each	154.00	3850.00
C	110 mm. <b>SOR Item No.18.77.3.2</b>	10.00	Each	44.00	440.00
D	110 mm. <b>SOR Item No.18.77.4.2</b>	20.00	Each	59.00	1180.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
86	Providing and fixing UV stabilized Unplasticised -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
A	75 mm.SOR Item No.18.78.1	20.00	Each	57.00	1140.00
B	110 mm.SOR Item No.18.78.2	50.00	Each	61.00	3050.00
87	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 150mm diameter and weighing not less than 440 grams.SOR Item No. 10.51	4.00	Each	57.00	228.00
88	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 1mx1mx650 micron thick (0.65mm), finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.SOR Item No.10.42	5.00	Each	205.00	1025.00
89	Providing and fixing stainless steel drain jali of approved make/quality.SOR Item No. 19.15	12.00	each	51.00	612.00
90	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete:				
A	50 mm dia. nominal bore SOR Item No. 19.9.6	20.00	Metre	398.00	7960.00
B	40 mm dia. nominal bore SOR Item No. 19.9.5	25.00	Metre	308.00	7700.00
91	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):65 mm nominal bore SOR Item No. 18.32.5	1.00	Each	1205.10	1205.10
92	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm <sup>2</sup> solid waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperately. (MP PWD SOR it 19.4.1/p341)				
	110 mm diameter OD ( minimum wall thickness 4.0mm )	25.00	Meter	237.00	5925.00
93	Providing and laying cement concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:				

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
	110 mm diameter PVC. Pipe (MP PWD SOR it 19.5.1/p341)	25.00	Meter	576.00	14400.00
94	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm <sup>2</sup> , water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	100x100 mm size P type.SOR Item No.20.3.1	3.00	Each	1339.00	4017.00
95	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm <sup>2</sup> in cement mortar 1:4 ( 1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : nside 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) : SOR ITEM NO. 20.7.1	5.00	Each	6703.00	33515.00
96	Extra for depth for manholes Size 90x80 cm SOR ITEM NO. 20.8.1	2.00	Each	3755.00	7510.00
97	Providing and constructing brick masonry road gully chamber 50x45x60 cm with well burnt modular clay bricks crushing strength not less than 35kg/cm <sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame complete as per standard design. SOR ITEM NO. 20.25	5.00	Each	2872.00	14360.00
98	Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.SOR It. No. 3.9	0.15	Cum	469.00	70.35

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
99	Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300..R.S.O.R Item 3.2	20.25	Cum	95.00	1923.75
100	Granular Sub-base as per Table:- 400-1-Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401. by mix in place method. Disintegrated rock i.e moorum having CBR value not less than 20 and P.I. and L.L. not more than 6 and 20 respectively. (For Village roads only) item no 4.1(B)	20.25	Cum	460.00	9315.00
101	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.( For Village roads). SOR ITEM No. item no 6.6(ii)	10.13	Cum	3695.00	37430.35
102	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.( For Village roads). P.C.C. M-25 . SOR ITEM No. item no 6.6(iii)	10.13	Cum	4286.00	43417.18
103	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.All types of soil. SOR ITEM NO. 21.1.1				
A	150 mm dia. SOR ITEM NO. 21.1.1.3	40.00	RMT	339.00	13560.00
B	Rocky strata including Boulders.				
	150 mm dia. SOR ITEM NO. 21.1.2.3	90.00	RMT	396.00	35640.00



PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
104	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level.				
	150 mm dia. <b>SOR ITEM NO. 21.2.1.3</b>	40.00	RMT	371.00	14840.00
105	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge.				
	150 mm dia. <b>SOR ITEM NO. 21.5.3</b>	40.00	RMT	1304.00	52160.00
106	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:150 mm dia. <b>SOR It. No. 21.11.3</b>	1.00	Each	217.00	217.00
107	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part I), including necessary bolts & nuts of required size complete				
	150 mm clamp. <b>SOR It. No. 21.12.3</b>	1.00	EACH	1055.00	1055.00
108	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable). <b>SOR It. No. 21.17</b>	1.00	EACH	1502.00	1502.00
109	Providing ISI Mark 32 mm dia G.I. ( B class) riser pipe and M.S. plunger rod in 3 meter length socketed on one end as per IS: 1239 ( Part I) 1990 with up to date amendments and socket as per IS: 2062/1990 up to date amendments. <b>SOR ITEM No. 21.16</b>	125.00	metre	275.00	34375.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
110	Wiring for light/ fan/ exhaust fan/ call bell point with 3x1.5 Sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5) SOR ITEM NO. 1.7. /Page 10 - 12				
	Light point / Exhaust fan point / Call bell point :-				
	Short Point SOR ITEM NO. 1.7.1 /Page 10 - 12	18	Point	266.00	4788.00
	Medium Point SOR ITEM NO. 1.7.2. /Page 10 - 12	23	Point	424.00	9752.00
	Long Point SOR ITEM NO. 1.7.3 /Page 10 - 12	39	Point	588.00	22932.00
111	Wiring for twin control light point with 3x1.5 Sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5) SOR ITEM NO. 1.8. /Page 10 - 12	4	Point	420.00	1680.00
112	Extra for providing and fixing light plug point on board in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G. I. box etc. as per specification and IS:694 (2010), IS: 9537 (2000 Part 5) SOR ITEM NO. 1.9. /Page 10 - 12	19	Point	216.00	4104.00
113	Wiring for light plug point with 3x2.5 sq mm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5) SOR ITEM NO. 1.10. /Page 10 - 12				
	Short Point SOR ITEM NO. 1.10.1 /Page 10 - 12	3	Point	442.00	1326.00
	Medium Point SOR ITEM NO. 1.10.2 /Page 10 - 12	1	Point	659.00	659.00
	Long Point SOR ITEM NO. 1.10.3 /Page 10 - 12	9	Point	922.00	8298.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
	Extra Long Point I SOR ITEM NO. 1.10.4 /Page 10 - 12	3	Point	1302.00	3906.00
	Extra Long Point II SOR ITEM NO. 1.10.5 /Page 10 - 12	1	Point	1657.00	1657.00
114	Wiring for power plug point with 3x4 sq mm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5) SOR ITEM NO. 1.11. /Page 10 - 12				
	Long Point SOR ITEM NO. 1.11.3 /Page 10 - 12	3	Point	1350.00	4050.00
	Extra Long Point I SOR ITEM NO. 1.11.4 /Page 10 - 12	5	Point	1807.00	9035.00
	Extra Long Point II SOR ITEM NO. 1.11.5 /Page 10 - 12	1	Point	2315.00	2315.00
115	Wiring for power plug point with 3x6 sq mm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with modular type 32 Amp SPMCB "C"curve and 6 pin 20 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5) SOR ITEM NO. 1.12. /Page 10 - 12				
	Extra Long Point I SOR ITEM NO. 1.11.4 /Page 10 - 12	1	Point	2326.00	2326.00
116	Extra for providing modular starter in power point wiring instead of modular 32 amp SPMCB and 16amps socket outlet as per specification. SOR ITEM NO. 1.16 /Page 10 - 12	1	Point	130.00	130.00
117	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed PVC conduit as required. SOR ITEM NO. 1.13. /Page 10 - 12				
	3 X 1.5 sq. mm in 20mm conduit SOR ITEM NO. 1.13.1 /Page 10 - 12	60	Metre	92.00	5520.00
	3 X 2.5 sq. mm in 20mm conduit SOR ITEM NO. 1.13.2 /Page 10 - 12	50	Metre	111.00	5550.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
	6 X 2.5 sq. mm in 25mm conduit SOR ITEM NO. 1.13.3 /Page 10 - 12	40	Metre	172.00	6880.00
	9 X 2.5 sq. mm in 25mm conduit SOR ITEM NO. 1.13.4 /Page 10 - 12	20	Metre	238.00	4760.00
	3 X 10 sq. mm in 25mm conduit SOR ITEM NO. 1.13.8 /Page 10 - 12	10	Metre	270.00	2700.00
	6 X 10 sq. mm in 40mm conduit SOR ITEM NO.	15	Metre	515.00	7725.00
	6 X 16 sq. mm in 50mm conduit SOR ITEM NO.	5	Metre	772.00	3860.00
118	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5) SOR ITEM NO. 1.15. /Page 10 - 12				
	20 mm SOR ITEM NO. 1.15.1. /Page 10 - 12	50	Metre	42.00	2100.00
	25 mm SOR ITEM NO. 1.15.2. /Page 10 - 12	100	Metre	53.00	5300.00
119	Supplying and drawing following pair 0.5 mm FR PVC insulated copper conductor, unarmored telephone wire in the existing surface/ concealed Steel/FRLS PVC conduit as per specification. SOR NO. 3.12/ page no. 18 - 22				
	2 Pair SOR NO. 3.12.2/ page no. 18 - 22	100	Metre	11.00	1100.00
120	Supplying and drawing following grade co-axial TV wire FR PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/FRLS PVC conduit as per specification SOR NO. 3.13/ page no. 18 - 22				
	RG-6 grade SOR NO. 3.13.1/ page no. 18 - 22	80	Metre	14.00	1120.00
121	Supplying and drawing UTP 4 pair Cat 6 LAN wire in existing surface/ concealed Steel/FRLS PVC conduit as per specification. SOR NO. 3.14/ page no. 18 - 22	100	metre	19.00	1900.00
122	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required. SOR NO. 4.4/ page no. 23 - 24				
	75mmX75mm (1/2 Module) SOR NO. 4.4.1/ page no. 23 - 24	9	Each	99.00	891.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
123	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification. SOR ITEM NO. 5.4 /Page 25 - 27				
	Fan regulator (two module size) electronic stepped type moving all rounds SOR ITEM NO. 5.4.8 /Page 25 - 27	10	Each	223.00	2230.00
	Telephone socket outlet SOR ITEM NO. 5.4.15 /Page 25 - 27	4	Each	70.00	280.00
	T.V. antenna socket outlet SOR ITEM NO. 5.4.16 /Page 25 - 27	3	Each	74.00	222.00
	Computer Outlet Jack SOR ITEM NO. 5.4.17 /Page 25 - 27	6	Each	242.00	1452.00
	Blanking plate SOR ITEM NO. 5.4.23 /Page 25 - 27	10	Each	28.00	280.00
124	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification. SOR ITEM NO. 5.7 /Page 25 - 27				
	Ordinary (simple) SOR ITEM NO. 5.7.1. /Page 25 - 27	1	Each	74.00	74.00
	Deluxe SOR ITEM NO. 5.7.2. /Page 25 - 27	1	Each	107.00	107.00
125	Providing and fixing round/ hexagonal fan box (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification. SOR ITEM NO. 5.9 /Page 25 - 27	10	Each	42.00	420.00
126	Supplying, installation, testing and commissioning of following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments. SOR ITEM NO. 6.1 /Page 32 - 53				
	1200 mm sweep SOR ITEM NO. 6.1.2. /Page 32 - 53	3	Each	1697.00	5091.00
	1400 mm sweep SOR ITEM NO. 6.1.3. /Page 32 - 53	7	Each	1773.00	12411.00
127	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the fan box etc. as per specification. (If provided at the time of installation of ceiling fan) SOR ITEM NO. 6.12. /Page 32 - 53	10	Each	56.00	560.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
128	Supplying, installation, testing and commissioning of 250/300 mm sweep 1400 rpm medium duty (continuous running) exhaust fan in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9 SOR ITEM NO. 6.7 /Page 32 - 53	2	Each	1334.00	2668.00
129	Supplying, installation, testing and commissioning of following sizes fancy exhaust fan having built in lovers in existing opening in wall including earthing etc. complete as required. SOR ITEM NO. 6.8 /Page 32 - 53				
	225 mm sweep SOR ITEM NO. 6.8.1 /Page 32 - 53	4	Each	1161.00	4644.00
130	Supplying, installation, testing and commissioning of following LED fitting (luminaries) panel light in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. SOR ITEM NO. 6.15 /Page 32 - 53				
	15/16 Watt SOR ITEM NO. 6.15.5 /Page 32 - 53	8	Each	679.00	5432.00
	18/20 Watt SOR ITEM NO. 6.15.6 /Page 32 - 53	10	Each	868.00	8680.00
131	Supplying, installation, testing and commissioning of following sleek LED panel down lighters (luminaries) in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. SOR ITEM NO. 6.16 /Page 32 - 53				
	36 watt, size 600 x 600mm SOR ITEM NO. 6.16.2 /Page 32 - 53	12	Each	2342.00	28104.00
132	Supplying, fixing, testing and commissioning of following LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. SOR NO. 6.17/ Page 32 - 53				
	9 Watt SOR NO. 6.17.4/ Page 32 - 53	10	Each	143.00	1430.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
133	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of diecast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens /watt.manufacturer. SOR ITEM NO. 6.28 /Page 32 - 53				
	25 watt SOR ITEM NO. 6.28.3 /Page 32 - 53	2	Each	1539.00	3078.00
	60 watt SOR ITEM NO. 6.28.7 /Page 32 - 53	4	Each	3622.00	14488.00
134	Supplying, installation, testing and commissioning of following LED tube light fitting including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/ in false ceiling, including connection, earthing etc complete as per specification and IP20, P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. SOR ITEM NO. 6.19 /Page 32 - 53				
	10 watt (2 feet) SOR ITEM NO. 6.19.2 /Page 32 - 53	5	Each	351.00	1755.00
	18/20 watt (4 feet) SOR ITEM NO. 6.19.3 /Page 32 - 53	14	Each	443.00	6202.00
135	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator) SOR ITEM NO. 9.2 /Page 78 - 85				
	4 Way single door SOR ITEM NO. 9.2.1 /Page 78 - 85	1	Each	567.00	567.00
	4 way, Double door SOR ITEM NO. 9.2.5 /Page 78 - 85	1	Each	784.00	784.00
	8 way, Double door SOR ITEM NO. 9.2.6 /Page 78 - 85	1	Each	946.00	946.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
136	Supplying and fixing on surface/ recess horizontal type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator) SOR ITEM NO. 9.4 /Page 78 - 85				
	4 way Double door SOR ITEM NO. 9.4.4 /Page 78 - 85	1	Each	1716.00	1716.00
137	Supplying and fixing on surface/ recess vertical type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, with 200 amps tinned copper busbar, common neutral link, earth bar, din bar, detachable gland/ knock out plate, including interconnections, earthing etc. as per specification. (But				
	4 way (4 + 12), Double door SOR ITEM NO. 9.5.4 /Page 78 - 85	1	Each	4149.00	4149.00
138	Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification. SOR ITEM NO. 9.11 /Page 78 - 85				
	6 amps to 32 amps SOR ITEM NO. 9.11.2 /Page 78 - 85	30	Each	148.00	4440.00
139	Supplying and fixing DP MCB, 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification. SOR ITEM NO. 9.12. /Page 78 - 85				
	6 amps to 32 amps SOR ITEM NO. 9.12.2. /Page 78 - 85	1	Each	411.00	411.00
140	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification. SOR ITEM NO. 9.16. /Page 78 - 85				
	40 amps SOR ITEM NO. 9.16.3 /Page 78 - 85	1	Each	1275.00	1275.00



PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
141	Supplying and fixing following rating, 240 volts TWO POLE ISOLATOR in the existing MCB DB complete with connections, testing and commissioning etc. as per specification. SOR ITEM NO. 9.19 /Page 78 - 85				
	40 amps SOR ITEM NO. 9.19.2 /Page 78 - 85	1	Each	264.00	264.00
142	Supplying and fixing following rating, 415 volts, FOUR POLES ISOLATOR in the existing MCB DB complete with connections, testing and commissioning etc. as per specification SOR ITEM NO. 9.20 /Page 78 - 85				
	63 amps SOR ITEM NO. 9.20.3 /Page 78 - 85	2	Each	647.00	1294.00
143	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as per specification. SOR ITEM NO. 9.23 /Page 78 - 85	10	Each	7.00	70.00
144	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as per specification and IS Code 3043: 1987(R 2016) SOR ITEM NO. 12.2 /Page 96 - 99	3	Set	3734.00	11202.00
145	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as per specification. SOR NO. 12.12/ page no. 96 - 99	20	Metre	36.00	720.00
146	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode at 0.5 Metre depth below ground level including excavation and refilling the trench etc. as per specification. SOR ITEM NO. 12.14 /Page no. 96 - 99	20	Metre	345.00	6900.00
147	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as per specification. SOR ITEM NO. 12.17 /Page 96 - 99	180	Metre	38.00	6840.00
148	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the				
	120 mm outer dia and 103.5 mm Inner dia SOR ITEM NO. 14.1.4 /Page 105 - 106	30	Metre	253.00	7590.00

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CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
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NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
149	Supplying and laying following size medium class G.I. pipe in ground below road, path etc ata depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification. SOR ITEM NO. 14.3 /Page 105 - 106				
	100 mm internal dia SOR ITEM NO. 14.3.3 /Page 105 - 106	10	Metre	879.00	8790.00
150	Supplying and fixing G.I. pipe along with wall or pole/ support with 2 Nos MS clamps for protection of under ground cable in approved manner including bolts and nuts or metal dash fasteners complete as per specification. SOR NO. 14.5/ page no. 105 - 106				
	100 mm dia SOR NO. 14.5.6/ page no. 105 - 106	10	Metre	953.00	9530.00
151	Supplying and laying following sizes one number FRLS PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground ata depth not less than 40 cm and upto 90 cm including excavtion, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1)/ IS:7098 (1988, Part 1). SOR ITEM NO. 15.1 /Page no. 114 - 129				
	4 x 10 sq. mm. SOR ITEM NO. 15.1.22 /Page no. 114 - 129	5	Metre	293.00	1465.00
	4 x 16 sq. mm. SOR ITEM NO. 15.1.23 /Page no. 114 - 129	5	Metre	300.00	1500.00
152	Supplying and laying following sizes additional one number, PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground as in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required. SOR ITEM NO. 15.2 /Page 114 - 129				
	4 x 10 sq. mm. SOR ITEM NO. 15.2.22 /Page 114 - 129	5	Metre	198.00	990.00
	4 x 16 sq. mm. SOR ITEM NO. 15.2.23 /Page 114 - 129	5	Metre	205.00	1025.00

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
153	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1)/ IS: 7098 (1988, Part 1). SOR ITEM NO. 15.3 /Page 114 - 129				
	4 x 10 sq. mm. SOR ITEM NO. 15.3.22 /Page 114 - 129	80	Metre	95.00	7600.00
	4 x 16 sq. mm. SOR ITEM NO. 15.3.23 /Page 114 - 129	80	Metre	103.00	8240.00
154	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as per specification, IS: 1554 (1988, Part 1)/ IS: 7098 (1988, Part 1). SOR ITEM NO. 15.5 /Page 114 - 129				
	2 x 4 sq. mm SOR ITEM NO. 15.5.1 /Page 114 - 129	70	Metre	92.00	6440.00
	4 x 10 sq. mm. SOR ITEM NO. 15.5.13 /Page 114 - 129	10	Metre	119.00	1190.00
	4 x 16 sq. mm. SOR ITEM NO. 15.5.14 /Page 114 - 129	10	Metre	126.00	1260.00
155	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core/ lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as per specification. SOR ITEM NO. 15.28 /Page 114 - 129				
	10 sq. mm SOR ITEM NO. 15.28.2 /Page 114 - 129	16	Each	18.00	288.00
	16 sq. mm SOR ITEM NO. 15.28.3 /Page 114 - 129	16	Each	19.00	304.00
156	Supplying, installation, testing and commissioning following rating single phase in single phase out ON-LINE UPS including connection etc but without batteries as per specification. SOR ITEM NO. 11.2. /Page 92				
	3 KVA with DC bus voltage 72 V SOR ITEM NO. 11.2.2 /Page 92	1	Each	33027.00	33027.00
157	Supplying, installation, testing and commissioning following rating SMF (Sealed Maintenance Free) lead acid battery including connection as required. SOR ITEM NO. 11.4 /Page 92				

PROJECT-PROPOSED CSP OFFICE AT NAVA RAIPUR					
CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
	65 AH SOR ITEM NO. 11.4.2 /Page 92	1	Each	7137.00	7137.00
158	Providing and fixing wooden board of suitable size (18"x 24") for energy meter etc complete as per specification. SOR ITEM NO. 6.50 /Page 32 - 53	2	Each	123.00	246.00
159	Providing and fixing porcelain re-wireble fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as per specification.				
	16 amps SOR NO. 7.11/ page no. 55 - 65	4	Each	58.00	232.00
	63 amps SOR NO. 7.11/ page no. 55 - 65	3	Each	162.00	486.00
160	Supplying and fixing water tight terminal box made of 1.6mm thick M.S. sheet with detachable gland plate in bottom, hinged front open able cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 40x3mm M.S. flat with 2 No nut bolt dully painted with 2 coat of red oxide paint and 2 coat aluminium paint complete as per specification. SOR NO. 19.16/ page no. 148 - 171				
	20x15x10Cms. SOR NO. 19.16.1/ page no. 148 - 171	4	Each	699.00	2796.00
161	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required. SOR ITEM NO. 26.3				
	5.0 HP, three phase. SOR ITEM NO. 26.3.5	1	Each	26110.00	26110.00
162	Supplying and fixing of following sizes 'B' class G I pipe with welded steel flange of suitable size at both the end of every pipe length, fixing with submersible pump and lowering with the pump in the bore well including necessary rubber gasket, nuts & bolts etc. as required. SOR ITEM NO. 26.4				
	50 mm dia. SOR ITEM NO. 26.4.4	100	Metre	382.00	38200.00
163	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as required. SOR ITEM NO. 26.7				
	50 mm dia. SOR ITEM NO. 26.7.4	1	Each	1048.00	1048.00

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CLIENT - CHHATTISGARH POLICE HOUSING CORPORATION LIMITED					
BILL OF QUANTITIES					
NO	PARTICULARS OF ITEM		UNIT	RATE	AMOUNT
164	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as required. <b>SOR ITEM NO. 26.8</b>				
	50 mm dia. <b>SOR ITEM NO. 26.8.4</b>	1	Each	1289.00	1289.00
165	Supply, installation, testing and commissioning of 5-7.5 HP 3 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 5/7.5 HP 3 phase DOL starter with over load and no volt relay 1 No c) 32 A "C" curve TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set. <b>SOR ITEM NO. 26.10</b>	1	Each	4253.00	4253.00
166	Supplying and making water proof joint with heat shrinkable joint kit including copper ferrules for following size of 3 core submersible copper conductor cable of 1.1 KV grade as required. <b>SOR ITEM NO. 26.15</b>				
	3x4.0 sqmm . <b>SOR ITEM NO. 26.15.3</b>	1	Each	281.00	281.00
167	Supplying and laying of approved make stainless steel wire rope of 6 mm dia for support of submersible pump set complete with tying to pump set and pump holding clamp. <b>SOR ITEM NO. 26.16</b>	110	Metre	16.50	1815.00
<b>ESTIMATED COST</b>					<b>4565202.39</b>