SCHEDULE OF QUANTITIES

NIT No. 31/NIT/EE-I/CPWD/BBSR/2026-27

Name of Work: Repair and Renovation of 3 Nos. Type-V Qtrs. at Old A.G colony, Unit-lV, Bhubaneswar.						
Item No.	**DSR 23 Item No.**	**Description**	**Quantity**	**Unit**	**Rate**	**Amount**
1		**EARTHWORK**				
1.1	2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
1.1.1	2.28.1	All kinds of soil	400.00	sqm	34.15	₹ 13,660.00
2		**CONCRETE WORK**				
2.1	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 :				
2.1.1	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	7.00	cum	7878.50	₹ 55,150.00
2.1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	11.00	cum	6518.60	₹ 71,705.00
2.2	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
2.2.1	4.2.2	1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	2.00	cum	10357.55	₹ 20,715.00
2.3	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
2.3.1	4.3.1	Foundations, footings, bases for columns	15.00	sqm	392.15	₹ 5,882.00
3		**REINFORCED CEMENT CONCRETE WORK**				
3.1	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor 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).	1.00	cum	11505.50	₹ 11,506.00
3.2	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
3.2.1	5.9.3	Suspended floors, roofs, landings, balconies and access platform	2.00	sqm	927.25	₹ 1,855.00
3.3	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.3.1	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	80.00	kg	107.85	₹ 8,628.00
4		**CLADDING WORK**				

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
4.1	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
4.1.1	8.2.2	Granite stone slab of colour black, Cherry/Ruby red				
4.1.1.1	8.2.2.1	Area of slab upto 0.50 sqm	20.00	sqm	5413.50	₹ 1,08,270.00
4.2	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	3.00	each	978.70	₹ 2,936.00
4.3	8.24	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete.				
4.3.1	8.24.4	50 mm long	50.00	each	29.75	₹ 1,488.00
4.4	8.31	Providing and fixing Ist 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.	150.00	sqm	1267.95	₹ 1,90,193.00
5		**WOOD AND PVC WORK**				
5.1	9.12	Extra for providing frosted glass panes 4 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	5.00	sqm	176.40	₹ 882.00
5.2	9.21	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:				
5.2.1	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	60.00	sqm	2172.10	₹ 1,30,326.00
5.3	9.48	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.				
5.3.1	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	50.00	kg	238.35	₹ 11,918.00
5.4	9.97	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 :				
5.4.1	9.97.3	200x10 mm	12.00	each	99.70	₹ 1,196.00
5.5	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 :				
5.5.1	9.100.1	125 mm	24.00	each	66.25	₹ 1,590.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
5.6	9.101	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.				
5.6.1	9.101.2	Twin rubber stopper	33.00	each	72.35	₹ 2,388.00
5.7	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with awall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	50.00	mtr	492.70	₹ 24,635.00
5.8	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20				
5.8.1	9.120.1	30 mm thick plain PVC door shutters	13.00	sqm	3182.95	₹ 41,378.00
5.9	9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
5.9.1	9.127.2	1.0 mm thick	120.00	sqm	897.30	₹ 1,07,676.00
5.10	9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
5.10.1	9.135.2	With 12 mm mild steel U beading	35.00	sqm	1228.00	₹ 42,980.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
5.11	9.147A	Providing and fixing factory made uPVC glazed/wire mesh windows/doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and				
5.11.1	9.147.A3	Two and half track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.				
5.11.1.1	9.147.A3.2	Using R3 series with frame (85mm & above) x (40mm & above) & glazed sash (30mm & above) x (55mm & above) & fly screen sash (20mm & above) x (50mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height upto 1.8 metre).	70.00	sqm	9968.70	₹ 6,97,809.00
5.11.2	9.147.C1	Fixed window / ventilator without mullion / transom.				
5.11.2.1	9.147.C1.1	Using R1 series with frame (33mm & above) x (35mm & above). (Height upto 0.90 metre)	5.00	sqm	8247.25	₹ 41,236.00
5.12	9.150.	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.	8.00	each	204.00	₹ 1,632.00
5.13	9.151	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	15.00	each	115.80	₹ 1,737.00
5.14	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
5.14.1	9.165.1	125 mm	5.00	each	119.20	₹ 596.00
5.15	9.168	Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)	60.00	sqm	2829.25	₹ 1,69,755.00
5.16	9.169	Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes,shelves,racks,almirah,cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.	100.00	sqm	2593.15	₹ 2,59,315.00
5.17	9.170	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.				
5.17.1	9.170.1	200 mm	100.00	each	186.65	₹ 18,665.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
5.18	9.171	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	210.00	each	272.00	₹ 57,120.00
5.19	9.172	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer- in-charge.	40.00	one set	885.10	₹ 35,404.00
5.20	9.173	Providing and fixing ready made 304 grade stainless steel Modular kitchen basket and accessories such as right angle basket (Plain Cup & Saucer, plant, Partition, Bottle rack, Thali, Cutlery) kitchen utensil basket, Dinner set basket, kitchen grain basket, Multipurpose basket as per site requirement including finishing (wherever required) and fittings. The same shall be fixed with necessary stainless steel nuts & bolts, Stainless Steel screws & telescopic channel etc. as per direction of Engineer-in-charge. (For payment purpose only weight of Stainless steel basket shall be considered excluding weight of all fixing accessories such as nuts, bolts, fasteners telescopic basket channels etc. Payment of providing and fixing telescopic channel shall be paid separately)	30.00	kg	533.25	₹ 15,998.00
5.21	9.174	Providing and fixing 2mm thick 16 to 19mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per directions of Engineer- in-charge.	75.00	mtr	43.80	₹ 3,285.00
6		**STEEL WORK**				
6.1	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
6.1.1	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	4.00	sqm	5804.35	₹ 23,217.00
6.2	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
6.2.1	10.16.1	Hot finished welded type tubes	650.00	kg	194.40	₹ 1,26,360.00
6.3	10.25	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.				
6.3.1	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	100.00	kg	172.60	₹ 17,260.00
6.4	10.27	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/mm2), 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.				
6.4.1	10.27.3	10 x 120 mm	90.00	each	170.95	₹ 15,386.00
7		**FLOORING**				
7.1	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
7.1.1	11.20.2	Medium shade pigment using 50% white cement, 50% ordinary cement	55.00	sqm	1328.35	₹ 73,059.00
7.2	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	25.00	sqm	1096.55	₹ 27,414.00
7.3	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
7.3.1	11.41A.1	Double charge vitrified tile polished finish of size				
7.3.1.1	11.41A.1.1	Size of Tile 600 x 600 mm	50.00	sqm	1453.63	₹ 72,682.00
7.4	11.460	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
7.4.1	11.46.2	Size of Tile 600 x 600 mm	10.00	sqm	1623.05	₹ 16,231.00
8		**ROOFING**				
8.1	12.21	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 :				
8.1.1	12.21.1	In 75x75 mm deep chase	15.00	mtr	305.15	₹ 4,577.00
8.2	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
8.2.1	12.41.2	110 mm diameter	30.00	mtr	377.40	₹ 11,322.00
8.3	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
8.3.1	12.42.1	Coupler				
8.3.1.1	12.42.1.2	110 mm	3.00	each	136.15	₹ 408.00
8.3.2	12.42.3	Single tee with door				
8.3.2.1	12.42.3.2	110x110x110 mm	5.00	each	234.15	₹ 1,171.00
8.3.3	12.42.5	Bend 87.5°				
8.3.3.1	12.42.5.2	110 mm bend	10.00	each	150.35	₹ 1,504.00
8.3.4	12.42.6	Shoe (Plain)				
8.3.4.1	12.42.6.2	110 mm bend	5.00	each	131.85	₹ 659.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
8.4	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm 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.				
8.4.1	12.43.2	110 mm	20.00	each	371.30	₹ 7,426.00
8.5	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	75.00	sqm	738.65	₹ 55,399.00
9		**FINISHING WORK**				
9.1	13.1	12 mm cement plaster of mix :				
9.1.1	13.1.2	1:6 (1 cement: 6 fine sand)	50.00	sqm	333.35	₹ 16,668.00
9.2	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
9.2.1	13.2.2	1:6 (1 cement: 6 fine sand)	50.00	sqm	383.00	₹ 19,150.00
9.3	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :				
9.3.1	13.7.2	1:4 (1 cement: 4 fine sand)	60.00	sqm	425.55	₹ 25,533.00
9.4	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
9.4.1	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over	150.00	sqm	160.60	₹ 24,090.00
9.5	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
9.5.1	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	150.00	sqm	226.25	₹ 33,938.00
9.6	13.80.	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.	150.00	sqm	156.05	₹ 23,408.00
9.7	13.83	Wall painting with premium acrylic emulsion paint of interior grade, 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.				
9.7.1	13.83.2	Two coats	1500.00	sqm	142.80	₹ 2,14,200.00
9.8	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
9.8.1	13.85.3	With water thinnable cement primer on wall surface having	1500.00	sqm	73.95	₹ 1,10,925.00
9.9	13.880	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1650.00	sqm	19.75	₹ 32,588.00
10		**REPAIRS TO BUILDINGS**				

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
10.1	14.1	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, all complete as per direction of Engineer-in-Charge.				
10.1.1	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	15.00	sqm	547.40	₹ 8,211.00
10.2	14.4	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.				
10.2.1	14.4.1	For door/ window/ clerestory window	3.00	sqm	1264.35	₹ 3,793.00
10.3	14.3	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.				
10.3.1	14.28.2	25 mm diameter.	100.00	mtr	421.75	₹ 42,175.00
10.4	14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	3.00	each	433.75	₹ 1,301.00
10.5	14.81	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	4.00	each	288.10	₹ 1,152.00
10.6	14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	9.00	each	134.10	₹ 1,207.00
10.7	14.85	Taking out existing wooden door/window shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	5.00	each	429.10	₹ 2,146.00
11		**Demolition and distmantlement**				
11.1	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
11.1.1	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	20.00	cum	1503.60	₹ 30,072.00
11.2	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	2.00	cum	3551.25	₹ 7,103.00
11.3	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
11.3.1	15.7.4	In cement mortar	5.00	cum	2060.20	₹ 10,301.00
11.4	15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
11.4.1	15.13.1	Of area 3 sq. metres and below	66.00	each	143.50	₹ 9,471.00
11.5	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	100.00	kg	5.65	₹ 565.00
11.6	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
11.6.1	15.23.1	For thickness of tiles 10 mm to 25 mm	150.00	sqm	73.40	₹ 11,010.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
11.7	15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	15.00	sqm	266.45	₹ 3,997.00
11.8	15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
11.8.1	15.44.1	15 mm to 40 mm nominal bore	50.00	mtr	149.80	₹ 7,490.00
11.9	15.45	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:				
11.9.1	15.45.1	Up to 150 mm diameter	30.00	mtr	332.40	₹ 9,972.00
11.10	15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	12.00	each	112.05	₹ 1,345.00
11.11	15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	30.00	sqm	56.35	₹ 1,691.00
11.12	15.60.	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.	20.00	cum	263.95	₹ 5,279.00
12		**SANITARY INSTALLATIONS**				
12.1	17.1	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:				
12.1.1	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	3.00	each	6767.40	₹ 20,302.00
12.2	17.7	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:				
12.2.1	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	6.00	each	2226.35	₹ 13,358.00
12.3	17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	6.00	each	1683.35	₹ 10,100.00
12.4	17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.				
12.4.1		(a) 15 mm nominal dia	6.00	each	6940.75	₹ 41,645.00
12.5	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
12.5.1	17.28.2	Flexible pipe				
12.5.1.1	17.28.2.2	40 mm dia	15.00	each	119.55	₹ 1,793.00
12.6	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	6.00	each	1607.95	₹ 9,648.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
12.7	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	6.00	each	1083.50	₹ 6,501.00
12.8	17.34	Providing and fixing toilet paper holder :				
12.8.1	17.34.1	C.P. brass	6.00	each	803.70	₹ 4,822.00
12.9	17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	6.00	each	18212.90	₹ 1,09,277.00
13		**WATER SUPPLY**				
13.1	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
13.1.1	18.7.3	25 mm nominal dia Pipes	30.00	mtr	401.55	₹ 12,047.00
13.1.2	18.7.5	40 mm nominal dia Pipes	20.00	mtr	702.95	₹ 14,059.00
13.2	18.8	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.				
13.2.1	18.8.2	20 mm nominal dia Pipes	80.00	mtr	537.60	₹ 43,008.00
13.3	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
13.3.1	18.18.3	25 mm nominal bore	9.00	each	464.05	₹ 4,176.00
13.4	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
13.4.1	18.21.2	45 cm length				
13.4.1.1	18.21.2.1	15 mm nominal bore	20.00	each	97.75	₹ 1,955.00
13.5	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
13.5.1	18.22.1	100 mm diameter	12.00	each	193.95	₹ 2,327.00
13.6	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 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.	3000.00	per litre	11.00	₹ 33,000.00
13.7	18.50.	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
13.7.1	18.50.1	15 mm nominal bore	6.00	each	820.70	₹ 4,924.00
13.8	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
13.8.1	18.51.1	15 mm nominal bore	9.00	each	798.95	₹ 7,191.00
13.9	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
13.9.1	18.52.1	15 mm nominal bore	12.00	each	670.45	₹ 8,045.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
13.10	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
13.10.1	18.53.1	15mm nominal bore	30.00	each	574.30	₹ 17,229.00
13.11	18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
13.11.1	18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440 gms	3.00	each	523.80	₹ 1,571.00
13.12	18.76	Cutting holes up to 30x30 cm in walls including making good the same:				
13.12.1	18.76.1	With common burnt clay F.P.S. (non modular) bricks	2.00	each	416.80	₹ 834.00
14		**ALUMINIUM WORK**				
14.1	21.10	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
14.1.1	21.1.1	For fixed portion				
14.1.1.1	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	60.00	kg	530.90	₹ 31,854.00
14.2	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
14.2.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	40.00	kg	634.45	₹ 25,378.00
14.3	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
14.3.1	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	30.00	sqm	1505.25	₹ 45,158.00
14.4	21.8	Filling the gap in between aluminium frame & 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.				
14.4.1	21.8.1	Upto 5mm depth and 5 mm width	50.00	mtr	96.75	₹ 4,838.00
15		**WATER PROOFING**				
15.1	22.14	Grading roof for water proofing treatment with				
15.1.1	22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	14.00	cum	16112.10	₹ 2,25,569.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
15.2	22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	350.00	sqm	563.10	₹ 1,97,085.00
16		**New Technology**				
16.1	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & 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/mm2, modulus of elasticity 900 N/mm2 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).				
16.1.1	26.86.4	Frame size 50 x 125 mm	45.00	mtr	1075.70	₹ 48,407.00
		Total			=	**₹ 42,18,466.00**
		Modified estimate cost after applying correction			=	**₹ 41,04,567.00**
		Add cost index @ 8.20%			=	**₹ 3,36,574.00**
		Total			=	**₹ 44,41,141.00**
17		**NON -Schedule work**				
17.1	NS	Brick work non modular fly ash bricks confirming to IS : 12894 of class designation 7.5 in foundation and plinth in:				
17.1.1		Cement mortar 1:6 (1 cement : 6 coarse sand)	7.00	cum	5740.10	₹ 40,181.00
17.2	NS	Brick work with non modular fly ash bricks conforming to IS:12894, classdesignation 7.5 average compressive strength in super structure above plinth levelup to floor V level in :				
17.2.1		Cement mortar 1:6 (1 cement : 6 Coarse sand)	3.00	cum	7599.00	₹ 22,797.00
17.3	NS	Half brick masonry with fly ash brick (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
17.3.1		cement mortar 1:4 (1 cement : 4 coarse sand)	20.00	SQM	1080.43	₹ 21,609.00
17.4	NS	Providing and fixing C.P. Towel Ring Square with Round Flange of Jaquar make (Code No.AKP- 35721P)) or equivalent including concealed fittings arrangement etc. all complete as per direction of Engineer-incharge.	9	each	1958.75	17629.00
17.5	NS	Providing and fixing C.P. brass two way bib cock (Jaquar CAT No.CQT-23041) with Health faucet with 8mm dia, 1.2m long flexible tube & wall hook (Jaquar make Cat No.ALD-573) or equivalent etc all complete as per direction of Engineer-incharge.	6	each	3153.65	18922.00
17.6	NS	Providing and fixing Soap Dish Holder (Jaquar make Cat No.AKP-35731P) etc all complete as per direction of Engineer-in-charge.	12	each	996.65	11960.00

Item No.	DSR 23 Item No.	Description	Quantity	Unit	Rate	Amount
17.7	NS	Providing and fixing Countertop wash basin oval shape ofsize 560x410 mm of Hindwaremake (Cat. No. 10017) orequivalent with C.P. brass pillarcock auto closing systen ofJaquar make (Code No. PRS-031) or equivalent includingcutting and making good thewalls wherever required etc. allcomplete as per the direction ofEngineer-in-charge.	3	each	17464.35	52393.00
17.8	NS	Providing and fixing CP grating of approved quality and colour.				
17.8.1		100 mm side square grating	12	each	100.70	1208.00
17.9	NS	Providing and fixing CP grating of approved quality and colour.				
17.9.1		125 mm side square grating with waste hole	9	each	124.55	1121.00
17.10	NS	Providing and fixing stainless steel tower bolts of superior quality(Grade-A ISI 304) with necessary screws etc. complete :				
17.10.1		200x10 mm	66	each	182.00	12012.00
17.11	NS	Providing and fixing 600 mm long CP brass towel rail of approved make and quality with brackets fixed to wooden cleats with CP brass screws complete as per direction of Engineer-In-Charge. .	9	each	1047.10	9424.00
17.12	NS	Providing and fixing 6 mm thick mirror of superior glass (of approved quality) and of required shape and size with 50x12 mm teak wood moulded frame including sprit polish over frame complete with 6 mm thick cement bonded particle board backing of bison or equivalent fixed to wooden cleats with C.P. brass screws and washers all complete as per manufacture's specifications and direction of Engineer-In-Charge.	5	sqm	1685.40	8427.00
17.13	NS	Providing and fixing stainless steel sliding door bolts of superior quality(Grade-A ISI 304) with nuts and screws etc. complete :				
17.13.1		300x16 mm	33	each	390.00	12870.00
17.14	NS	Providing and fixing stainless steel door handle of superior quality(Grade-A ISI 304) with nuts and screws etc. complete :				
17.14.1		125 mm	66	each	139.00	9174.00
				Total	=	**₹ 46,80,868.00**