Abstract of Cost

Name of Work :- Renovation of 1 Nos. Gents Toilet New Chief Commissioner office at 2nd Floor at Income Tax Civil lines Raipur (C.G) .

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
1	**CONCRETE WORK**						
1.1	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:						4.2
1.1.1	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)	2.00	cum	9895.2	10013.94	20028.00	4.2.3
1.1.2	1:5:10 (1 cement : 5 coarse sand (zone-Ill) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources).	4.00	Cum	8519.2	8621.43	34486.00	4.2.8
2	MASONRY WORK						
2.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :						6.4
2.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.00	Cum	8078.52	8078.52	8079.00	6.4.2
2.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						6.13
2.2.1	Cement mortar 1:4 (1 cement :4 coarse sand)	1.50	Sqm	989.05	989.05	8860.00	6.13.2
3	CLADDING WORK						
3.1	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.						8.2
3.1.1	Granite stone slab of colour black, Cherry/Ruby red						8.2.3
3.1.1.1	Area of slab over 0.50 sqm	18	Sqm	3848.7	3894.88	70108.00	8.2.3.2
3.2	Providing and fixing 75 mm high, 50 mm deep and 18 mm thick stone slab table rubbed, edges rounded and polished, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.						8.10
3.2.1	Granite Stone of approved shade	4	Sqm	4051.85	4100.47	16402.00	8.10.2

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
3.3	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.	35	Sqm	1267.95	1283.17	44911.00	8.31
4	WOOD AND PVC WORK						9
4.1	Providing and fixing Stainless steel sliding door bolts, , transparent or dyed to required colour or shade, with nuts and screws etc. complete :						NDSR-1
4.1.1	250x16 mm	1.00	each	636.15	636.15	636.00	
4.2	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.						9.165
4.2.1	125 mm	6.00	each	119.2	120.63	724.00	9.165.1
4.3	Providing and fixing Stainless Steel Door latch with necessary screws etc. of best make and approved brand complete as per the direction of Engineer-in-charge.	5.00	each	929.45	929.45	4647.00	NDSR-2
4.4	Providing and fixing stainless steel tower bolts with necessary screws etc. complete	3.00	each	508.60	508.60	2418.00	NDSR-3
5	FLOORING WORK						11
5.1	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.						11.41A
5.1.1	Glazed Vitrified tiles Matt/Antiskid finish of size						11.41A.3
5.1.1.1	Size of Tile 600 x 600 mm	14	sqm	1464.85	1482.43	20754.00	11.41A.3.1
6	FINISHING						13
6.1	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.	24	sqm	156.05	157.92	3790.00	13.80
6.2	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.						13.82
6.2.1	one coats	18.186	sqm	92	93.10	1693.00	13.82.1
6.2.2	Two coats	24.00	sqm	137.45	139.10	3338.00	13.82.2

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
6.3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	24.00	sqm	19.75	19.99	480.00	13.88
6.4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :						13.99
6.9.1	One or more coats on old work.	10	sqm	102.8	104.03	1040.00	13.99.1
7	REPAIRS TO BUILDING						14
7.1.1	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.						14.1
7.1.1	With cement mortar 1:4 (1cement: 4 coarse sand)	7	sqm	560.5	567.23	3971.00	14.1.2
7.2	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.						14.4
7.2.1	For door/ window/ clerestory window	3	sqm	1264.35	1279.52	3839.00	14.4.1
7.3	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	2	each	134.1	135.71	271.00	14.82
7.4	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineerin- Charge. (a) Internal Work- Exposed on wall	19	metre	3.25	3.29	63.00	14.84
8.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.						15.2
8.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	4	cum	2434.25	2463.46	9854.00	15.2.1
8.2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge						15.7
8.2.1	In cement mortar	0.5	cum	2060.2	2084.92	9474.00	15.7.4
8.3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :						15.12
8.3.1	Of area 3 sq. metres and below	3	each	367.2	371.61	1115.00	15.12.1
8.4	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.						15.23
8.4.1	For thickness of tiles 10 mm to 25 mm	63	sqm	73.4	74.28	4680.00	15.23.1
8.5	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :						15.42
8.5.1	75 to 80 mm dia pipe	10.00	metre	75.7	76.61	766.00	15.42.1

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
8.6	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :						15.42
8.6.1	100 mm dia pipe	12	metre	78.00	78.94	947.00	15.42.2
8.7	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.	8	cum	263.95	267.12	2137.00	15.60
9	SANITARY INSTALLATIONS						17
9.1	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 whiteP.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings andfixtures complete, including cutting and making good the walls andfloors wherever required:						17.1
9.1.1	White Vitreous china Orissa pattern W.C. pan of size580x440 mm with integral type foot rests	1.00	each	6767.40	6848.61	6849.00	17.1.1
9.2	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:						NDSR-4
9.2.1	White Vitreous China Wash basin size 550x400 mm with single15 mm C.P. brass pillar tap.	1.00	each	1843.95	1843.95	1844.00	
9.3	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	3.00	each	1034.8	1047.22	3142.00	17.22A
9.4	Providing and fixing 100 mm sand cast Iron grating for gully trap.	3.00	each	53.25	53.89	162.00	17.29
9.5	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :						17.32
9.5.1	Circular shape 450 mm dia	1.00	each	1479.05	1496.80	1497.00	17.32.1
9.6	Providing and fixing toilet paper holder :						17.34
9.6.1	C.P. Brass	1.00	each	803.7	813.34	813.00	17.34.1
9.7	Hubless centrifugally cast (spun)						17.35
9.7.1	100 mm dia						17.35.1
9.7.1.1	Hubless centrifugally cast (spun) ironpipes epoxy coated inside & outsideIS:15905	26	metre	1169.3	1183.33	30767.00	17.35.1.3
9.7	Hubless centrifugally cast (spun)						17.35
9.7.2	75 mm diameter :						17.35.2
9.7.2.1	Hubless centrifugally cast (spun) ironpipes epoxy coated inside & outsideIS:15905	22	metre	964.25	975.82	21468.00	17.35.2.3
9.8	Providing and fixing M.S. holder-bat clamps of approved design toSand Cast iron/cast iron (spun) pipe embedded in and includingcement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size),including cost of cutting holes and making good the walls etc. :						17.37
9.8.1	For 100 mm dia pipe	8.00	each	362.85	367.20	2938.00	17.37.1
9.8.2	For 75 mm dia pipe	8.00	each	360	364.32	2915.00	17.37.2

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
9.9	Providing and fixing bend of required degree with access door, insertionrubber washer 3 mm thick, bolts and nuts complete.						17.38
9.9.1	100 mm dia						17.38.1
9.9.1.1	Hubless centrifugally cast (spun) ironepoxy coated inside & outside as perIS:15905	2.00	each	567.2	574.01	1148.00	17.38.1.3
9.9.2	75 mm dia						17.38.2
9.9.2.1	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	2.00	each	418.95	423.98	848.00	17.38.2.3
9.10	Providing and fixing plain bend of required degree.						17.39
9.10.1	100 mm dia						17.39.1
9.10.1.1	Hubless centrifugally cast (spun) ironpipes epoxy coated inside & outsideIS:15905	2.00	each	368.00	372.42	745.00	17.39.1.3
9.10.2	75 mm dia						17.39.2
9.10.2.1	Hubless centrifugally cast (spun) ironpipes epoxy coated inside & outsideIS:15905	2.00	each	252.5	255.53	511.00	17.39.2.3
9.11	Providing and fixing heel rest sanitary bend						17.4
9.11.1	100 mm dia						17.40.1
9.11.1.1	Sand cast iron S&S as per IS - 1729	2.00	each	584.25	591.26	1183.00	17.40.1.1
9.11.2	75 mm dia						17.40.2
9.11.2.1	Sand cast iron S&S as per IS - 1729	2.00	each	490.05	495.93	992.00	17.40.2.1
9.12	Providing and fixing single equal plain junction of required degree :						17.44
9.12.1	100x100x100 mm						17.44.1
9.12.1.1	Hubless centrifugally cast (spun) ironepoxy coated inside & outside as perIS:15905	6.00	each	581.45	588.43	3531.00	17.44.1.3
9.12.2	75x75x75 mm						17.44.2
9.12.2.1	Hubless centrifugally cast (spun) ironepoxy coated inside & outside as perIS:15905	6.00	each	337.85	341.90	2051.00	17.44.2.3
9.13	Providing and fixing terminal guard :						17.56
9.13.1	100 mm						17.56.1
9.13.1.1	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	2.00	each	427.8	432.93	866.00	17.56.1.3
9.13.2	75 mm						17.56.2
9.13.2.1	Sand cast iron S&S as per IS - 3989	2.00	each	404.75	409.61	819.00	17.56.2.2
9.14	Providing and fixing shielded coupling for Hubless centrifugally castiron pipe						17.57A
9.14.1	100 mm dia						17.57A.1
9.14.1.1	SS 304 grade coupling with EPDM rubbergasket	24.00	each	432.05	437.23	10494.00	17.57A.1.1
9.14.2	75 mm dia						17.57A.2
9.14.2.1	SS 304 grade coupling with EPDM rubbergasket	24.00	each	389.05	393.72	9449.00	17.57A.2.1
9.15	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :						17.6
9.15.1	100 mm inlet and 75 mm outlet						17.60.2
9.15.1.1	Sand cast iron S&S as per IS - 3989	4.00	each	1975.15	1998.85	7995.00	17.60.2.1
9.16	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :						17.65
9.16.1	100 mm diameter pipe	24.00	metre	82.80	83.79	2011.00	17.65.1
9.16.2	75 mm diameter pipe	22.00	metre	62.95	63.71	1402.00	17.65.2

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
9.17	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	1.00	each	168.35	170.37	170.00	17.71
9.18	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	1.00	each	713.2	721.76	722.00	17.74
9.19	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	1.00	each	14999.15	15179.14	15179.00	17.78
9.20	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	2.00	each	7979.2	8074.95	16150.00	17.80
10	**Water supply**						
10.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.						18.7
10.1.1	32 mm nominal dia Pipes	5.00	metre	518.75	524.98	2625.00	18.7.4
10.2	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 wall etc.						18.8
10.2.1	15 mm nominal dia Pipes	14	metre	497.8	503.77	7053.00	18.8.1
10.2.2	20 mm nominal dia Pipes	5	metre	537.6	544.05	2720.00	18.8.2
10.2.3	25 mm nominal dia Pipes	15	metre	627.25	634.78	9522.00	18.8.3
10.3	Providing and fixing uplasticised PVC connection pipe with brass unions :						18.21
10.3.1	45 cm length						18.21.2
10.3.1.1	15 mm nominal bore	5.00	each	97.75	98.92	495.00	18.21.2.1
10.4	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :						18.49
10.4.1	15 mm nominal bore	1.00	each	506.8	512.88	513.00	18.49.1
10.5	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.						18.51
10.5.1	15 mm nominal bore	1.00	each	798.95	808.54	809.00	18.51.1

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
10.6	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931						18.53
10.6.1	15 mm nominal bore.	5.00	each	574.3	581.19	2906.00	18.53.1
11.1	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth 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/sqm).	34	sqm	769.60	778.84	26481.00	22.3

SLNo	Description	Qty	Unit	Rate	Rate with MF 1.012	Amount	DSR No.
12	**NEW TECHNOLOGIES AND MATERIALS**						26
12.1	Providing an fixing factory made single extruded WPC (Wood Polymer Composite) solid wood/ window/ clerestory window 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 nontoxic additives (maximum toxicity index of 12 for 100gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750kg/cum, screw withdrawal strength of 2200N (face) & 1100N (edge), minimum compressive strength of 58N/mm2 and modulus of elasticity 900N/mm2 and resistance of spread of flame of class A category with property of being termite/ borer proof, water /moisture proof and fire retardant and fixed in position with M.S. hold fast/ lugs/ SS dash fasteners of required dia and length complete as per direction of Engineer in Charge, (M.S. hold fast/lugs or SS dash fasteners shall be paid for separately) Note: For WPC (Wood Polymer Composite) solid wood/ window frames minus 5mm tolerance to dimensions i.e. depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.						26.86
12.1	Frame size 45 x 70 mm	15	metre	705.85	714.32	10715.00	26.86.1
12.2	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/ mm2, modulus of elasticity 850 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. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)						26.88
12.2.1	30 mm thick	6	sqm	4764.2	4821.37	28928.00	26.88.1
	Total					**520939.00**	

Assistant Engineer
RCSD-I, CPWD, Raipur