CHHATTISGARH MEDICAL SERVICES CORPORATION LIMITED

(Government of Chhattisgarh)

Tender

For

Construction of District Drug Warehouse at Kanker (C.G.), under National Rural Health Mission scheme

Bill of Quantities (BOQ)

VOLUME-V

November' - 2015



HSCC (INDIA) LTD. (CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES) E-6(A), sector-1, NOIDA(U.P) 201301 (India)

Phone: 0120-2542436-40 Fax: 0120-2542447

Tender No. HSCC/NRHM/CG/2015(VII)/02

GENERAL ABSTRACT

Name of Work: Construction of District Drug Warehouse at Chhattisgarh (C.G).

S.No.	DESCRIPTION	Amount (in Rs)	Quoted % (Percent) below or above in figure	Quoted % (Percent) below or above in words	TOTAL AMOUNT (in Rs.)
1	DSR -ITEMS				
1.1	CIVIL WORK	182,27,685.22			
1.2	PLUMBING WORK	4,46,742.95			
2	Non DSR Items				
2.1	PLUMBING WORK	6,92,946.90			
2.2	ELECTRICAL WORK	37,40,548.50			
2.3	HVAC WORK	21,95,469.00			
	Grand Total	253,03,392.57		0.0	0

Project Name: Construction of Drug Warehouse at various locations in Chattisgarh (Area: 1052 Sqm)

ABSTRACT OF COST(Civil Work)

S.No	DESCRIPTION OF WORK	DSR 13 AMOUNT (in Rs.)
1	EARTHWORK	311973.35
2	CONCRTE WORK	726132.72
3	RCC WORK	9551342.85
4	BRICK WORK	1266524.55
5	DOORS & WINDOWS	1051978.90
6	STEEL WORK	291585.25
7	FLOORING	915150.85
8	CEILING & ROOFING	1134141.00
9	FINISHING	1415975.50
10	ROAD WORK AND DEVELOPMENT	1562880.25
	TOTAL	18227685.22

Project Name: Construction of Drug Warehouse at various locations in Chattisgarh (Area: 1052 Sqm) **BOQ for Civil Work Description Of Item Total Qty** Unit **DSR 13 Rate Amount DSR** Item No 3 5 1 2 4 6 **EARTH WORK** 1.00 Earth work in excavation by mechanical means (Hydraulic 1.01 excavator)/manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil 445.00 146.50 65192.50 a) cum b) Ordinary rock 20.00 227.80 4556.00 cum c) Hard rock (blasting prohibited) 20.00 571.90 11438.00 cum 1.02 Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil. a) 50.00 148.25 7412.50 cum Filling available excavated earth (excluding rock) in trenches, plinth, 1.03 sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. 984.00 101.50 99876.00 cum 1.04 Extra for every additional lift of 1.5 m or part there of in excavation/banking excavated or stacked materials. All kinds of soil. i) 1.5 to 3.0m 41.75 30.00 1252.50 cum Supplying and filling in plinth with fine sand under floors including, 1.05 watering. ramming consolidating and dressing complete. 114.00 843.65 96176.10 cum Clearing jungle including uprooting of rank vegetation, grass, brush 1.06 wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. HSCC/District Dug Ware House NRHM, hattisgarh 500.00 100sqm 579.55 2897.75

		BOQ for Civil Work				
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
1.07	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.					
(a)	Beyond 60 cm girth upto and including 120 cm girth	2.00	2.00 each		1573.90	
(b)	Beyond 120 cm girth upto and including 240 cm girth	2.00 each		3638.05	7276.10	
1.08	Extra for disposal of excavated earth for additional lead beyond 50m or part thereof upto 9 such additional leads					
a)	All kinds of soil	200.00	cum	20.37	4074.00	
1.09	Supplying chemical emulsion in sealed containers including delivery as specified.					
a)	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	40.00	Litre	185.95	7438.00	
1.10	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :					
a)	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:					
	With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	200.00	metre	14.05	2810.00	
					311973.35	

			E	BOQ for Civil Work	
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
2.00	Concrete Work				
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
a)	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	5.00	cum	4921.70	24608.50
b)	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	47.00	cum	3920.65	184270.55
c)	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	114.00	cum	3672.80	418699.20
2.02	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 etc. up to floor five level, excluding the cost of centering, shuttering and finishing:				
a)	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	5.00	cum	5822.15	29110.75
2.03	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 12.5mm nominal size).	47.00	sqm	220.60	10368.20
2.04	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer specification .	12.00	per 50 kg cement	44.36	532.32
2.05	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	47.00	sqm	108.75	5111.29

				BOQ for Civil Work	
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.				
		141.00	sqm	378.95	53431.95

Item No		BOQ for Civil Work				
	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
3.00	REINFORCED CEMENT CONCRETE					
3.01	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.					
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).					
a)	All works upto plinth level	172.00	cum	5704.45	981165.4	
b)	All work above plinth level upto floor V level	326.00	cum	6353.00	2071078.0	
3.02	Centering and shuttering including strutting, propping etc. and removal of form for:					
a)	Foundations, footings, bases of columns, etc. for mass concrete.	143.00	sqm	186.40	26655.2	
b)	Suspended floors, roofs, landings, balconies and access platform.	1155.00	sqm	371.80	429429.0	
c)	Shelves (Cast in situ)	3.00	sqm	371.80	1115.4	
d)	lintels, beams, plinth beams. girders. bressumers and cantilevers.					
-\	Columna Billara Biana Abutaranta Basta and Churt	1541.00	sqm	309.80	477401.8	
e)	Columns, Pillars, Piers, Abutments, Posts and Struts.	585.00	sqm	423.00	247455.0	
f) g)	Stairs, (excluding landings) except spiral-staircases Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates,	9.00	Sqm	375.65	3380.8	
	anchor blocks and the like.	10.00	sqm	186.40	1864.0	
h)	Extra for shuttering in circular work for					
i)	columns	10.00	Sqm	84.60	846.0	
ii)	Beams	10.00	sqm	61.96	619.6	

Project Name: Construction of Drug Warehouse at various locations in Chattisgarh (Area: 1052 Sqm) **BOQ for Civil Work Description Of Item Total Qty** Unit Amount DSR Item No DSR 13 Rate 2 3 4 5 6 1 3.03 Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of deshuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured) Suspended floors, roofs, landings, beams and balconies (Plan area to be measured). 3361.00 145.60 489361.60 sqm Steel reinforcement for R.C.C. work including straightening, cutting, 3.04 bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars a) i) At all levels Kg 71564.00 66.50 4759006.00 Add for using extra cement in the items of design mix over and 3.05 above the specified cement content therein. 100.00 Qtl 619.65 61965.00 **Total** 9551342.85

			BOQ for Civil Work			
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
4.00	BRICK WORK					
4.01	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
a)	Cement mortar 1:6 (1 cement: 6 coarse sand)	47.00	cum	4646.50	218385.50	
4.02	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 :					
a)	Cement mortar 1:6 (1 cement: 6 coarse sand)	192.00	cum	5124.05	983817.60	
4.03	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
a)	cement mortar 1:4 (1 cement: 4 coarse sand)	10.00	sqm	574.70	5747.00	
4.04	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.					
a)	Cement mortar 1:4 (1 cement :4 coarse sand)	74.00	sqm	641.30	47456.20	
4.05	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks).					
		74.00	sqm	69.50	5143.00	
4.06	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	155.00	Motro	20 55	E07E 21	
	Salluj.	155.00	Metre	38.55	5975.2	
	Total				1266524.5	

			BOQ for Civil Work		
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
5.00	DOORS, WINDOWS AND FITTINGS				
5.01	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):				
a)	For fixed portion				
i)	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	1252.00	kg	380.30	476135.6
b)	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).				
i)	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	636.00	kg	380.30	241870.8
5.02	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
a)	Pre-laminated particle board with decorative lamination on both sides.	2.00	Sqm	1066.00	2132.0

			E	BOQ for Civil Work		
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
5.03	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):					
a)	With float glass panes of 5.50 mm thickness	126.00	sqm	1009.00	127134.00	
5.04	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS: 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.					
a)	With brass cover plate minimum 1.25 mm thickness	3.00	each	2194.30	6582.90	
5.05	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:					
a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	35.00	sqm	1684.75	58966.25	
5.06	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured).	33.00	sqm	348.45	11498.85	
5.07	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):					
a)	Rectangular or square.	17.00	sqm	133.55	2270.35	

		BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR		
1	2	3	4	5	6		
5.08	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	2.00	sqm	5.80	11.60		
5.09	Providing glass panes, with wooden fillets wherever necessary.						
a)	Float glass panes of thickness 4 mm	1.00	Sqm	825.95	825.95		
5.10	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						
a)	1.0 mm thick.	66.00	sqm	663.20	43771.20		
5.11	Providing and fixing Aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI:3564, embossed on the body,door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.3						
		9.00	each	737.35	6636.15		
5.12	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete:						
a)	300x16 mm	1.00	each	215.30	215.30		
b)	250x16 mm	17.00	each	180.45	3067.68		
5.13	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:						
a)	250x10 mm	100.00	each	90.65	9065.00		
b)	150x10 mm	98.00	each	62.75	6149.50		

Project Name: Construction of Drug Warehouse at various locations in Chattisgarh (Area: 1052 Sqm)

		BOQ for Civil Work				
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
5.14	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 wilh necessary screws etc. complete:					
a)	125 mm	36.00	each	66.95	2410.20	
b)	100 mm	2.00	each	52.80	105.60	
5.15	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.					
a)	Twin rubber stopper	18.00	each	80.20	1443.60	
5.16	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS: 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	2.00	each	754,45	1508.90	
5.17	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.					
a)	255 X 19 mm	166.00	each	262.30	43541.80	
5.18	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.					
a)	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	4.00	each	507.90	2031.60	
5.19	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.					
a)	Powder coated minimum thickness 50 micron aluminium.	84.00	each	52.40	4401.60	
5.20	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in charge					
a)	Powder coated minimum thickness 50 micron aluminium	3.00	each	67.50	202.50	

Project Name: Construction of Drug Warehouse at various locations in Chattisgarh (Area: 1052 Sqm)							
		BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR		
1	2	3	4	5	6		
	Total				1051978.90		

			I	BOQ for Civil Work	
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
6.00	Steel Works				
6.01	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 cost with approved steel primer all complete.				
a)	Fixed to steel windows by welding.	2032.00	kg	103.15	209600.80
6.02	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer.				
a)	M.S. tube.	53.00	Kg	97.45	5164.85
6.03	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.				
a)	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	100.00	Kg	86.50	8650.00
6.04	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.				
a)	80x1.25 mm M.S. laths with 1.25 mm thick top cover	31.00	sqm	2044.15	63368.6
6.05	Providing and fixing ball bearing for rolling shutters.	11.00	each	436.45	4800.9
	Jan				
	Total				291585.2

		BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR		
1	2	3	4	5	6		
7.00	Flooring						
7.01	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc.complete.	854.00	sqm	480.10	410005.40		
7.02	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement.						
a)	18 mm thick.	23.00	sqm	299.20	6881.60		
7.03	Providing and fixing glass strips in joints of <i>terrazo</i> / cement concrete floors.						
a)	40 mm wide and 4 mm thick.	1010.00	Metre	33.80	34138.00		
7.04	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :						
a)	25 mm thick.	172.00	sqm	1071.70	184332.40		
7.05	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	20.00	sqm	1100.85	22017.00		

		BOQ for Civil Work				
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
7.06	Providing and fixing lst 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.					
		107.00	sqm	793.60	84915.20	
7.07	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement: 4 Coarse sand) including pointing the joints with white cement and matching pigments etc.,					
	complete.	20.00	sqm	1023.15	20463.00	
7.08	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, 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					
a)	Size of Tile 600x600 mm	81.00	sqm	1402.55	113606.55	
7.09	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), including grouting the joint with white cement & matching pigments etc. complete.					
a)	Size of Tile 600x600 mm	6.00	sqm	1411.45	8468.70	

			E	30Q for Civil Work	
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
7.10	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, induding rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels				
a)	Granite of any colour and shade	2.22		0704.70	7440
i)	Area of slab upto 0.50 sqm	2.00	sqm	3724.70	7449.4
ii)	Area of slab over 0.50 sqm.	3.00	sqm	3769.70	11309.1
7.11	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc complete as per design approved by Engineer-in-Charge				
a)	Granite work.	4.00	metre	210.65	842.6
7.12	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.				
		4.00	metre	225.75	903.0
7.13	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	3.00	Nos	350.80	1052.4
7.14	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :				

Pro	oject Name: Construction of Drug Warehouse	at various loca	ations in C	chattisgarh (Are	ea: 1052 Sqm)
		BOQ for Civil Work			
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
	Total				915150.85

				BOQ for Civil Work	(
tem No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
8.00	CEILING & ROOFING				
8.01	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.				
a)	d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge:				
a) 	with average thickness of 120 mm and minimum thickness at khurra as 65 mm.	1285.00	sqm	882.60	1134141
	Total				113414

		BOQ for Civil Work				
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
9.00	Finishing					
9.01	12 mm cement plaster of mix:					
a)	1:6 (1 cement: 6 fine sand)	680.00	sqm	133.85	91018.00	
,			•			
9.02	15 mm cement plaster on the rough side of single or half brick wall of mix:					
a)	1:6 (1 cement: 6 fine sand)	1124.00	sqm	154.70	173882.80	
9.03	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	1263.00	sqm	215.40	272050.20	
0.04	Commence to the start of mains					
9.04 a)	6 mm cement plaster of mix: 1:3 (1 cement: 3 fine sand)	1577.00	sgm	120.35	189791.95	
u)	1.5 (1 comoni. e mio cara)	1077.00	34111	120.00	100701.00	
9.05	Finishing walls with Acrylic Smooth exterior paint of required shade:					
a)	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kgl10 sqm).	272.00	sqm	78.10	21243.20	
9.06 a)	Finishing walls with textured exterior paint of required shade: New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/1 0 sqm.	1203.00	sqm	127.10	152901.30	
	2.2019/10 04/11.	1203.00	Sqiii	127.10	132301.30	
9.07	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					
a)	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	297.00	sqm	92.75	27546.75	
9.08	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.	3049.00	sqm	85.40	260384.60	

				BOQ for Civil Work	
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
9.09	Distempering with 1st quality acrylic distemper, 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.				
a)	Two coats	3099.00	sqm	41.75	129383.25
9.10	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
a)	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	3099.00	sqm	31.55	97773.45
	Total				1415975.50

			E	30Q for Civil Work	
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
10.00	ROAD WORK AND DEVELOPEMENT				
10.01	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.				
		700.00	SQM	73.55	51485.0
10.02	Providing and laying C.C. pavement of mix M25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge.				
	(The panel shuttering work shall be paid for separately).	139.00	Cum	6248.00	868472.0
10.03	Providing and laying in position bitumen hot sealing compound for expansion joints etc				
a)	Using grade 'A' sealing compound.	2500.00	Per cm depth per cm width per m length	1.90	4750.00
			por ionigi		
10.04	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine				
	sand etc. all complete as per the direction of Engineer-in-charge.	200.00	sqm	557.50	111500.0

				BOQ for Civil Worl	(
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR
1	2	3	4	5	6
10.05	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.				
		80.00	cum	3003.10	240248.00
10.06	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	19.00	Cum	5236.95	99502.0
10.07	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).				
		90.00	Cum	37.10	3339.00
10.08	Supplying and stacking of well decayed cow dung manure at site including royalty and carriage upto 1 km (Cow dung manure				
	measured in stacks will reduced by 8% for Payment).	30.00	Cum	239.20	7176.0

		BOQ for Civil Work				
Item No	Description Of Item	Total Qty	Unit	DSR 13 Rate	Amount DSR	
1	2	3	4	5	6	
10.09	Rough dressing the trenched ground including breaking clods & Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.					
		300.00	Sqm	3.05	914.55	
10.10	Chronding of cludge dump manuse ar/and good parth in required					
10.10	Spreading of sludge, dump manure or/and good earth in required thickness as per direction of office-in charge (Cost of sludge, dump manure or/ and good earth to be paid separately).					
		30.00	Cum	25.15	754.50	
10.11	Fine dressing of the ground	300.00	Sqm	1.75	525.00	
10.12	Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately).					
a)	With grass Turf	300.00	Sqm.	6.34	1902.00	
10.13	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%: 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):					
a)	Holes 1.2 m dia and 1.2 m deep.	10.00	Each	211.90	2119.00	
b)	Holes 60 cm dia, and 60 cm deep.	10.00	Each	90.90	909.00	
10.14	Supplying and stacking of good earth at site including royalty. (Earth					
	measured in stacks will be reduced by 20% for payment)	549.00	Cum	308.35	169284.15	
					48000000	
	Sub Total		CIVIL BOQ		1562880.25	

ABSTRACT OF COST PHE

Name of Work: Proposed Drugwarehouse at various locations in Chattisgarh under NRHM Project

S.No.	DESCRIPTION	DSR-2013 Amount (Rs)	Market Amount(Rs)
Α	PLUMBING WORK		
1.00	SANITARY FIXTURES	56,224.65	17,685.00
2. 00	SOIL, WASTE AND VENT PIPES	57,463.05	82,241.00
3.00	WATER SUPPLY	1,54,293.85	9,283.00
4.00	SEWERAGE AND DRAINAGE	1,37,145.15	2,10,500.00
5.00	EARTH WORK	13,334.50	0.00
6.00	RAIN WATER PIPING	28,281.75	68,439.60
7.00	BOREWELL	0.00	2,25,314.30
8.00	Miscellaneous	0.00	50,000.00
9.00	FIRE FIGHTING	0.00	29,484.00
	TOTAL	4,46,742.95	6,92,946.90

	Name of Work:BOQ of Proposed Drugwarehouse at various loc	ations ir	Chattisgarh ı	under NRHM F	Project		
SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
	SANITARY FIXTURES 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:						
)	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	1.00	3,265.25	3,265.25		
1.02	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:						
a)	W.C. pan with ISI marked black solid plastic seat and lid	each	3.00	4,613.05	13,839.15		

	Name of Work:BOQ of Proposed Drugwarehouse at various lo	cations ir	n Chattisgarh	under NRHM I	Project		
SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
1.03	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:						
a)	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	each	6.00	1,699.95	10,199.70		
1.04	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink 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:						
a)	Kitchen sink with drain board						
a i)	510x1040 mm bowl depth 250 mm	each	1.00	6,975.40	6,975.40)	
1.05	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required:						
a)	Size 600x450x200 mm	each	1.00	2,992.45	2,992.45		
1.06	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:						
a)	Rectangular shape 453x357 mm	each	1.00	700.30	700.30		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
b)	Providing and fixing full size branded mirrors of 5mm thick float glass (of approved quality) complete with 6mm thick ply backing fixed to wall over suitable hardwood base frame complete with 32mmx19mm decorative teakwood moulding all around duly polished as per drawings and as directed.	sq.m.	1.00			5,000.00	5,000.00
1.07	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.	each	1.00	522.2	522.20		
1.08	Providing and fixing toilet paper holder :						
a)	Vitreous china	each	1.00	322.15	322.15		
1.09	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.	each	4.00	181.75	727.00		
1.11	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.	each	1.00	16,681.05	16,681.05		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
1.12	Providing and fixing water Jet Nozzle with hose pipe and haif turn CP brass angle valve to be fitted with seat cover of european water closet complete in all respect of approved quality	Each	3.00			1,369.00	4,107.00
1.13	Providing and fixing soap tray with CP brass lid and brackets fixed to wooden cleats with CP brass screws.(Jaquar model no.1131 or equivalent model of other approved make).	Each	1.00			508.00	508.00
1.14	Providing and fixing CP brass towel rail size of 600x20 mm of approved make complete with CP brackets fixed to wooden cleats with CP brass screws(Jaquar model no.1111 or equivalent model of other approved make)	Each	3.00			990.00	2,970.00
1.15	Providing and fixing brass coat hook of approved quality and make complete with material of fixing	Each	2.00			300.00	600.00
1.16	Extra for providing and fixing white vitreous china oval shape wash basin in place of normal wash basin with CI/MS brackets painted white, 15 mm CP brass pillar taps, 32 mm CP brass waste of standard pattern, including painting of fittings and brackets cutting and making good the walls wherever required						
a)	Counter top oval shape wash basin size 550x470 mm with centre tap hole, single 15 mm CP brass swan neck type pillar tap	Each	1.00			1,332.00	1,332.00
1.17	Providing and fixing stainless steel grab bar 25mm dia of required length minimum 750 mm with PVC cleats, C.P. brass screws etc. complete.	Each	1.00			668.00	668.00

	Name of Work:BOQ of Proposed Drugwarehouse at various locations in Chattisgarh under NRHM Project										
SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount				
1	2	3	4	5	6	7	8				
1.18	Providing and fixing vitreous china division plate of size 960x165x325 mm of approved make and design including brass cleats, C.P. brass screws all fittings etc. complete in all respect	Each	1.00			2,500.00	2,500.00				
	SubTotal(Sanitary Fixtures)				56,224.65	5	17,685.00				

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
2.00	SOIL, WASTE AND VENT PIPES						
2.01	Providing and fixing soil, waste and vent pipes.						
a)	100 mm dia.		`				
i)	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	30.00	952.50	28,575.00		
b)	150 mm dia						
	Centrifugally cast (spun) iron socketed pipe as per IS:3989	Metre	20.00			2,100.00	42,000.00
2.02	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.						
a)	for 100 mm dia. pipe	Each	1.00	140.65	140.65		
2.03	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.						
a)	100 mm						
a i)	Sand cast iron S&S as per IS-3989	Each	6.00	384.45	2,306.70		
	Providing and fixing plain bend of required degree.						
a)	100 mm						
a i)	Sand cast iron S&S as per IS:3989	Each	9.00	334.50	3,010.50		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
2.05	Providing and fixing heel rest sanitary bend.						
a)	100 mm dia						
a.i)	sand cast iron S&S as per IS-3989	Each	1.00	370.50	370.50		
	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.						
a)	100x100x100mm						
	sand cast iron S&S as per IS-3989	Each	1.00	622.55	622.55		
2.07	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts and nuts complete						
a)	100 mm						
a.ii)	sand cast iron S&S as per IS-3989	Each	2.00	512.20	1,024.40		
2.08	Providing and fixing terminal guard.						
a)	100 mm	Each	1.00	433.20	433.20		
a.i)	sand cast iron S&S as per IS-3989						
2.09	Providing and fixing collar						
a)	100 mm						
a.i)	Sand cast iron S&S as per IS-3989	Each	2.00	317.05	634.10		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
2.10	Providing lead caulked joints to sand cast iron /centrifugally cast (spun) iron pipes and fittings of diameter:						
a)	100 mm	Each	40.00	232.30	9,292.00		
2.1	Providing Drip seal joint of approved make for the sand cast iron/centrifugaly cast iron pipes where the workability of lead joint can be effected due to space constraints.						
a)	100 mm	Each	20.00			100.00	2,000.00
2.12	Providing and fixing M.S. stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter :						
a)	100 mm	Each	1.00	67.35	67.35		
2.13	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:						
a)	100 mm inlet and 100 mm outlet (P trap with 50 mm water seal)						
a i)	Sand cast iron S&S as per IS-3989	Each	10.00	938.05	9,380.50		
2.14	Cutting chases in brick masonary walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement:3 coarse sand:6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement: 4 coarse sand):						

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
a)	100 mm diameter pipe	Metre	2.00	302.60	605.20		
2.15	Painting sand cast iron / centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint off any colour such as chocolate, grey, or buff etc. over a coat of primer (of approved quality) for new work:						
a)	100 mm diameter pipe	Metre	4.00	33.85	135.40		
2.16	Providing and fixing floor drain points formed out of 65/50 mm dia GI elbow, including with 75mm dia Stainless Steel grating with frame, embedded in floor, all complete as directed.	Each	2.00			300.00	600.00
2.17	Providing and fixing C.P. brass bottle trap for wash basin including CP waste fittings complete 32 mm dia complete in all respect of approved quality.	Each	6.00			739.00	4,434.00
2.18	Providing and fixing C.P. brass bottle trap for sinks & urinal basin including CP waste fittings complete 40 mm dia complete in all respect of approved quality.	Each	2.00			744.00	1,488.00
2.19	Providing and laying cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) 80 mm thick all-round the SCI/centrifugally S&S pipe diameter.						
a)	100 mm dia	Metre	30.00			295.90	8,877.00

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
2.20	Providing and fixing dash fastner made of rust proof plated steel for holding the soil/waste supply pipes complete in all respect						
a)	Dash fastner for pipe more than 25 mm dia to 150 mm dia pipe of required size but not less than size 10 mm dia and 50 mm long minimum & shall be capable of taking 6 tonnes load and also include the supporting threaded rod of 8 mm dia and length 450 mm,the support MS structure angles etc. will be paid as per weight separately/approved steel structures support as per drawing.	Each	2.00			200.00	400.00
	Providing and fixing floor clean out plug consist of CI bend & GI socket heavy class with Brass cap & key for opening male threaded cap etc. including lead caulked to CI pipescomplete in all respects as per drawing/ sample approved by Engineer -in - ChargeFCO (floor clean out plug shall be flushed with floor finish						
	100 mm dia/150 mm dia	Each	1.00)		1,800.00	1,800.00
2.22	Providing and fixing clean out plug consist of GI socket/nipple heavy class with threaded pludge for opening male threaded cap etc. including lead caulked to CI pipescomplete in all respects as per drawing/ sample approved by Engineer -in -Charge						
	100 mm dia/150 mm dia	Each	1.00			1,500.00	1,500.00

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
2.23	Providing and fixing G.I EXTENSION PIECE for 100 mm dia floor trap formed out of main pipe (Type A) with multiple side inlets, suitable for various dia pipes, side connections, including all fixtures and fittings as per site conditions and as per standard details and water tight sealing of joints and area surrounding the grating and as directed.	Each	8.00			574.00	4,592.00
2.24	Providing and fixing cPVC./GI pipes complete with cPVC /GI fittings including painting, jointing, testing the cost of cutting the chases and making good the same for waste water disposal complete as per direction of engineer incharge.						
a)	32 mm dia nominal bore (Wash basin to floor trap/floor drain)	Metre	8.00			390.00	3,120.00
b)	40 mm dia nominal bore (Sink, Urinal to floor trap)	Metre	2.00			450.00	900.00
c)	50 mm dia nominal bore (Floor Drain to Floor Trap)	Metre	3.00			560.00	1,680.00
2.25	Providing & fixing SS floor trap grating 143x143x5mm thick screwable with SS fixed frame of 150x150 mm size as per approved make & model	each	10.00			780.00	7,800.00
2.26	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.						
a)	In gratings,frames,guard bar,ladder,railings,brackets,gates and similar works.	kg	10.00	86.50	865.00		

	Name of Work:BOQ of Proposed Drugwarehouse at various locations in Chattisgarh under NRHM Project									
SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount			
1	2	3	4	5	6	7	8			
	Providing and fixing WC connector socket(for vitreous china & CI pipe) of EDPM good quality with polypropelene body 100x150/100x250 of approved quality and make complete in all respect.	Each	3.00			350.0	1,050.00			
	SUB TOTAL(SOIL, WASTE AND VENT PIPES)				57,463.05		82,241.00			

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
3.00	WATER SUPPLY						
3.01	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.						
	Internal work – Exposed on wall						
1)	15 mm nominal outer dia pipes	Metre	5.00	155.80	779.00		
o)	20 mm nominal outer dia pipes	Metre	30.00	182.15	5,464.50		
;)	25 mm nominal outer dia pipes	Metre	25.00	222.90	5,572.50		
d)	32 mm nominal outer dia pipes	Metre	5.00	287.10	1,435.50)	
)	40 mm nominal outer dia pipes	Metre	2.00	395.60	791.20		
·)	50 mm nominal outer dia pipes	Metre		569.20			
3.02	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.						

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
a)	15 mm nominal outer dia pipes	Metre	40.00	254.95	10,198.00		
o)	20 mm nominal outer dia pipes	Metre	25.00	281.35	7,033.75		
c)	25 mm nominal outer dia pipes	Metre	15.00	336.25	5,043.75		
d)	32 mm nominal outer dia pipes	Metre	5.00	407.40	2,037.00		
3.03	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes and fittings with one step CPVC solvent cement,trenching,refilling and testing of joints complete as per direction of Engineer in Charge.						
	External Work						
a)	50 mm nominal outer dia pipes	Metre	10.00	517.20	5,172.00		
o)	25 mm nominal outer dia pipes	Metre	25.00	203.10	5,077.50		
3.04	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete:						
a)	50 to 80 mm nominal bore	Each	1.00	722.0	721.95		
3.05	providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)						
a)	25 mm nominal bore	Each	2.00	427.80	855.60		
p)	32 mm nominal bore	Each	2.00	500.35	1,000.70		
c)	40 mm nominal bore	Each	1.00	584.20	584.20		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
d)	50 mm nominal bore	Each	1.00	749.40	749.40		
	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main						
a)	50 mm nominal bore	Each	1.00			600.00	600.00
3.07	Providing and fixing unplasticised PVC connection pipe with brass unions:						
a)	45 cm length						
a i)	15 mm nominal bore	Each	11.00	67.35	740.85		
	Constructing masonary chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for stop cock, with C.I. surface box 100x100x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cenment:5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design						
a)	With F.P.s bricks	Each	1.00	1,070.30	1,070.30		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
	Constructing masonary chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cenment:5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design						
1)	With F.P.s bricks	each	1.00	6,441.05	6,441.05	5	
	Painting CPVC/G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work						
a)	15 mm nominal outer dia pipes	Metre	5.00	8.60	43.00)	
	20 mm nominal outer dia pipes	Metre	30.00		303.00		
	25 mm nominal outer dia pipes	Metre	25.00		333.75		
	32 mm nominal outer dia pipes	Metre	5.00		78.75		
,	40 mm nominal outer dia pipes	Metre	2.00	18.70	37.40)	
	50 mm nominal outer dia pipes	Metre		22.00			
	Painting G.I. /CPVC pipes and fittings with two coats of anti- corrosive bitumastic paint of approved quality.						
a)	50 mm diameter pipe	Metre	10.00	12.65	126.50)	
)	25 mm diameter pipe	Metre	25.00	7.90	197.50	1	

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
3.12	Providing and filling sand of grading zone V or coarser grade all-round the G.I./CPVC pipes in external work						
a)	50 mm diameter pipe	Metre	10.00	69.05	690.50		
b)	25 mm diameter pipe	Metre	25.00	108.95	2,723.75		
3.13	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.						
	Treated water Tank and Untreated water tank	per litre	5,000.00	6.3	31,500.00		
3.14	Providing and fixing C.P brass bib cock of approved quality confirming to IS:8931.						
a)	15 mm nominal bore	Each	3.00	458.40	1,375.20		
3.15	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.						
a)	15 mm nominal bore	Each	4.00	795.20	3,180.80		
3.16	Providing and fixing C.P. brass angle valve for basin mixer and geyser/cisterns points of approved quality conforming to IS:8931.						
a)	15 mm nominal bore	Each	11.00	506.70	5,573.70		

	Name of Work:BOQ of Proposed Drugwarehouse at various lo	cations in	n Chattisgarh	under NRHM	Project		
SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
3.18	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.						
a)	40 mm nominal bore, 206 mm long weighin not less than 690 gms	Each	2.00	969.65	1,939.30		
3.19	Cutting holes upto 30x30 cm in walls including making good the same						
a)	with common burnt clay F.P.S.(non modular) bricks	Each	10.00	196.40	1,964.00		
3.20	Cutting holes up to 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	Each	10.00	176.30	1,763.00		
3.21	Providing & fixing full way lever operated forged brass ball valve of brass body with forged brass hard chrome plated steel ball tested to a pressure not less than 10 Kg / sqcm with threaded / flanged joints complete with nuts, bolts, gaskets, washers etc.						
a)	15 mm diameter	Each	2.00			240.00	480.00
b)	20 mm diameter	Each	6.00			332.00	1,992.00
3.22	Providing and fixing mosquito proof coupling of approved Municipal design for scour and vent pipes for RCC overhead tanks complete in all respects						
	20 mm diameter	Each	1.00			44.80	44.80
b)	25 mm diameter	Each	2.00			50.00	100.00

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
c)	32 mm diameter	Each	1.00			55.00	55.00
d)	40 mm diameter	Each	1.00			60.20	60.20
3.23	Providing and fixing C.P. brass lab sink pillar tap with long elbow operating lever handle of approved model and make complete in all respect (Aqua bath, Jaquar, Marc)	Each	2.00			2,525.50	5,051.00
3.26	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :						
a)	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1.00	6441.05	6,441.05	5	
3.27	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:						
a)	20 mm diameter pipe	metre	20.00	6.15	123.00)	
d)	80 mm diameter pipe	metre	30.00	18.05	541.50		

CI	Description of Hom	11:4:4	Total atu	DSR 2013	A	Market Rate	Market
SI. No.	Description of Item	Unit	Total qty.	Rate (Rs)	Amount DSR-13	Market Rate	Amount
1	2	3	4	5	6	7	8
3.28	Providing and filling sand of grading zone V or coarser grade allround the G.I./CPVC pipes in external work						
a)	20 mm diameter pipe	metre	20.00	62.40	1,248.00		
b)	80 mm diameter pipe	metre	30.00	112.30	3,369.00		
3.29	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required:						
a)	20 mm nominal bore	each	2.00	355.2	710.40		
b)	80 mm diameter pipe	each	2.00	956.60	1,913.20		
3.30	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc. if required will be paid separately):						
a)	50 mm dia	each	1.00	4773.30	4,773.30		
3.31	Providing and fixing garden hydrant of approved quality and make complete in all respect	each	2.00			450.0	900.0
3.32	Providing and fixing G.I. pipes class B complete with G.I. fittings including trenching and refilling etc.						
a)	20 mm dia nominal bore	Metre	20.00	186.25	3,725.00		
	80 mm dia nominal bore	Metre	30.00	628.35	18,850.50		
·	SUB TOTAL(Water Supply)				1,54,293.85		9,283.00

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
4.00	SEWARAGE & DRAINAGE						
4.01	Providing laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the pro-portion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.						
a)	100 mm diameter	Metre	6.00	197.60	1,185.60		
4.02	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:						
a)	100 mm diameter S.W. pipe/RCC NP2	Metre	6.00	543.55	3,261.30		
o)	150 mm diameter S.W. pipe/RCC NP2	Metre	50.00	664.80	33,240.00		
4.03	Providing and fixing square-mouth S.W. gully trap grade 'A" complete with C.I. grating, brick masonry chamber with water tight C.I. cover with frame of 300x300 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:						
a)	150x100mm size P type			1546.95			
a.i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3.00	1,520.90	4,562.70		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
4.04	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement:2 fine sand) including testing of joints etc. complete						
a)	150 mm dia R.C.C. pipe	Metre	50.00	340.35	17,017.50		
4.05	Constructing brick masonry manhole 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 : 4graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 (1 cement : 4 coarse sand : 8graded stone aggregate 40 mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a 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 all complete as per standard design.						
a)	Inside 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):						
a i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00	8,062.70	32,250.80		
4.06	Extra depth for manholes						
n)	Size 90 x 80 cm						
a i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	1.00	5,481.40	5,481.40		

SI. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
4.07	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size), and making necessary channel 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 all complete as per standard design:						
а)	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately):						
a i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00	8,241.55	8,241.55		
4.08	Extra depth for circular type manhole 0.91m dia (at bottom) with beyond 0.91m to 1.67 m						
1)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	0.50	4,698.40	2,349.20		