

**CHHATTISGARH MEDICAL SERVICES CORPORATION  
LIMITED**

**(Government of Chhattisgarh)**

**Tender**

**For**

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

**Bill of Quantities (BOQ)**

**VOLUME-V**

**June- 2013**



**HSCC (INDIA) LTD.  
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)  
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**Tender No. HSCC/NRHM/CG./2013 (II)/23**

**GENERAL ABSTRACT**

**Name of Work: Construction of Regional Drug Warehouse Chhattisgarh at Kanker (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	<b>DSR -ITEMS</b>				
1.1	CIVIL WORK	12,986,803.03			
1.2	PLUMBING WORK	419,928.23			
2	<b>Non DSR Items</b>				
2.1	PLUMBING WORK	642,946.90			
2.2	ELECTRICAL WORK	2,255,477.00			
2.3	HVAC WORK	245,448.00			
	<b>Grand Total</b>	<b>16,550,603.16</b>			

Sign & Seal

**Project Name: Construction of Regional Drug Warehouse at Chattisgarh**

**ABSTRACT OF COST(Civil Work)**

<b>S.No</b>	<b>DESCRIPTION OF WORK</b>	<b>DSR AMOUNT (in Rs.)</b>
1	EARTHWORK	317,365.48
2	CONCRTE WORK	545,748.35
3	RCC WORK	7,350,126.70
4	BRICK WORK	1,015,814.20
5	DOORS & WINDOWS	948,560.50
6	STEEL WORK	106,497.25
7	FLOORING	367,827.45
8	CEILING & ROOFING	367,827.45
9	FINISHING	669,248.55
10	ROAD WORK AND DEVELOPMENT	1,297,787.10
	<b>TOTAL</b>	<b>12,986,803.03</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>1.00</b>	<b>EARTH WORK</b>				
1.01	Earth work in excavation by mechanical means (Hydraulic 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.				
a)	All kinds of soil	53.00	cum	129.35	6855.55
b)	Ordinary rock	31.00	cum	197.75	6130.25
c)	Hard rock (blasting prohibited)	31.00	cum	490.10	15193.10
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.				
a)	All kinds of soil.	607.00	cum	130.80	79395.60
1.03	Filling available excavated earth (excluding rock) in trenches, plinth, 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.	1212.00	cum	83.80	101565.60

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
1.04	Extra for every additional lift of 1.5 m or part there of in excavation/banking excavated or stacked materials.				
a)	All kinds of soil.				
ii)	1.5 to 3.0m	174.00	cum	34.60	6020.40
1.05	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	109.00	cum	749.30	81673.70
1.06	Extra for disposal of excavated earth for additional lead beyond 50m or part thereof upto 9 such additional leads				
a)	All kinds of soil	1212.00	cum	16.94	20531.28
	<b>Total</b>				<b>317365.48</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>2.00</b>	<b>Concrete Work</b>				
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)	4.00	cum	4514.05	18056.20
b)	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	27.00	cum	3593.30	97019.10
c)	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	109.00	cum	3357.40	365956.60
2.02	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).	67.00	sqm	207.55	13905.85
2.03	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer specification .	18.00	per 50 kg cement	35.35	636.30
2.04	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.	67.00	sqm	96.65	6475.55

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
2.05	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.	129.00	sqm	338.75	43698.75
<b>Total</b>					<b>545748.35</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>3.00</b>	<b>REINFORCED CEMENT CONCRETE</b>				
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	155.00	cum	5242.15	812533.25
b)	All work above plinth level upto floor V level	286.00	cum	5781.50	1653509.00
3.02	Centering and shuttering including strutting, propping etc. and removal of form for:				
a)	Foundations, footings, bases of columns, etc. for mass concrete.	108.00	sqm	166.90	18025.20



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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
b)	Suspended floors, roofs, landings, balconies and access platform.	1163.00	sqm	311.20	361925.60
c)	lintels, beams, plinth beams. girders. bressumers and cantilevers.	1364.00	sqm	262.25	357709.00
d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	475.00	sqm	365.60	173660.00
e)	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	8.00	sqm	166.90	1335.20
f)	Extra for shuttering in circular work for				
i)	columns	10.00	Sqm	73.12	731.20
ii)	Beams	10.00	sqm	52.45	524.50
3.03	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering 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)				
a)	Suspended floors, <i>roofs</i> , landings, beams and balconies (Plan area to be measured).	100.00	sqm	121.65	12165.00

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
3.04	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
a)	Thermo-Mechanically Treated bars				
i)	At all levels	62635.00	Kg	62.25	3899028.75
3.05	Add for using extra cement in the items of design mix over and above the specified cement content therein.				
		100.00	Qtl	589.80	58980.00
	<b>Total</b>				<b>7350126.70</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>4.00</b>	<b>BRICK WORK</b>				
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)	83.00	cum	3316.55	275273.65
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)	122.00	cum	3876.15	472890.30
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	416.95	4169.50
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)	479.00	sqm	476.85	228411.15

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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).	489.00	sqm	63.30	30953.70
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).	158.00	Metre	26.05	4115.90
<b>Total</b>					<b>1015814.20</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>5.00</b>	<b>DOORS, WINDOWS AND FITTINGS</b>				
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)	698.00	kg	394.90	275640.20
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)	352.00	kg	443.80	156217.60

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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.	3.00	Sqm	969.95	2909.85
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	59.00	sqm	905.75	53439.25

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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	2.00	each	2127.30	4254.60
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.	84.00	sqm	1578.30	132577.20
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).				
		84.00	sqm	325.20	27316.80

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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.	42.00	sqm	127.75	5365.50
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).	1.00	sqm	5.80	5.80
5.09	Providing glass panes, with wooden fillets wherever necessary.				
a)	Float glass panes of thickness 4 mm	5.00	Sqm	724.65	3623.25
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.	168.00	sqm	596.30	100178.40



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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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	14.00	each	662.80	9279.20
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	10.00	each	203.80	2038.00
b)	250x16 mm	5.00	each	168.95	844.75
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	47.00	each	86.45	4063.15
b)	150x10 mm	184.00	each	59.00	10856.00

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 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 with necessary screws etc. complete :				
a)	125 mm	93.00	each	62.50	5812.50
b)	100 mm	15.00	each	49.55	743.25
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	47.00	each	71.55	3362.85
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.				
		28.00	each	706.15	19772.20
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.				

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
a)	255 X 19 mm	137.00	each	229.80	31482.60
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	544.40	2177.60
5.19	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2.00	each	356.10	712.20
5.20	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.	137.00	each	51.70	7082.90
5.21	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	4.00	each	66.80	267.20

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
5.22	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				
a)	80x1.20 mm M.S. laths with 1.20 mm thick top cover	48.00	Sqm	1583.40	76003.20
5.23	Providing and fixing ball bearing for rolling shutters.	17.00	each	429.85	7307.45
5.24	Extra for providing grided rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge.(area of grill to be measured).	20.00	Sqm	261.35	5227.00
<b>Total</b>					<b>948560.50</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>6.00</b>	<b>Steel Works</b>				
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.	983.00	kg	90.75	89207.25
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.	100.00	Kg	86.45	8645.00
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	86.45	8645.00
	<b>Total</b>				<b>106497.25</b>

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>7.00</b>	<b>Flooring</b>				
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.	5.00	sqm	420.50	2102.50
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.	5.00	sqm	258.20	1291.00
7.03	Providing and fixing glass strips in joints of <i>terrazo</i> / cement concrete floors.				
a)	40 mm wide and 4 mm thick.	20.00	Metre	29.40	588.00

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Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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.	220.00	sqm	945.70	208054.00
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.	22.00	sqm	954.10	20990.20
7.06	Providing and fixing 1st 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.	141.00	sqm	724.25	102119.25

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Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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.	34.00	sqm	961.25	32682.50
<b>Total</b>					<b>367827.45</b>



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Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>8.00</b>	<b>CEILING &amp; ROOFING</b>				
8.01	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured.	1890.00	sqm	311.50	588735.00
8.02	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).	1890.00	sqm	249.65	471838.50

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BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
8.03	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).	200.00	sqm	127.00	25400.00
<b>Total</b>					<b>1085973.50</b>

## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>9.00</b>	<b>Finishing</b>				
9.01	12 mm cement plaster of mix:				
a)	1:6 (1 cement: 6 fine sand)	812.00	sqm	112.50	91350.00
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)	993.00	sqm	130.20	129288.60
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).	578.00	sqm	182.90	105716.20
9.04	6 mm cement plaster of mix:				
a)	1:3 (1 cement: 3 fine sand)	1099.00	sqm	101.00	110999.00
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 kg/10 sqm).	578.00	sqm	67.50	39015.00
9.06	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				

## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
a)	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	66.00	sqm	78.80	5200.80
9.07	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
a)	New work (two or more coats) over and including priming coat with cement primer.	2903.00	sqm	64.65	187678.95
<b>Total</b>					<b>669248.55</b>

## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
<b>10.00</b>	<b>ROAD WORK AND DEVELOPEMENT</b>				
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	61.25	42875.00
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	5761.60	800862.40
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	1.65	4125.00

## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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	536.65	107330.00
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	2899.25	231940.00

## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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	5046.80	95889.20
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	30.90	2781.00
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	215.15	6454.50

## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 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	2.54	762.00
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	21.00	630.00
10.11	Fine dressing of the ground	300.00	Sqm	1.46	438.00
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.	5.28	1584.00



## Project Name: Construction of Regional Drug Warehouse at Chattisgarh

BOQ for Civil Work					
Item No	Description Of Item	Total Qty	Unit	DSR 12 Rate	Amount DSR
1	2	3	4	5	6
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% : 1part 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	186.90	1869.00
b)	Holes 60 cm dia, and 60 cm deep.	10.00	Each	24.70	247.00
	<b>Sub Total</b>				<b>1297787.10</b>

**ABSTRACT**

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM

S.No.	DESCRIPTION	DSR-2012 Amount (Rs)	Market Amount(Rs)
<b>A</b>	<b>PLUMBING WORK</b>		
1.00	SANITARY FIXTURES	50,713.80	17,685.00
2. 00	SOIL, WASTE AND VENT PIPES	50,991.00	82,241.00
3.00	WATER SUPPLY	137,486.60	9,283.00
4.00	SEWERAGE AND DRAINAGE	144,382.68	210,500.00
5.00	EARTH WORK	11,495.40	
6.00	RAIN WATER PIPING	24,858.75	68,439.60
7.00	BOREWELL	0.00	225,314.30
9.00	FIRE FIGHTING	0.00	29,484.00
	<b>TOTAL</b>	<b>419,928.23</b>	<b>642,946.90</b>

	Design & Engineering Department						
	<b>Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM</b>						
<b>Sl. No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Total qty.</b>	<b>DSR 2012 Rate (Rs)</b>	<b>Amount DSR</b>	<b>Market Rate</b>	<b>Market Amount</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
	<b>1.00 SANITARY FIXTURES</b>						
1.01	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 :						
a)	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	1.00	2,964.10	2,964.10		
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	4,201.05	12,603.15		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sq m )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	1,460.50	8,763.00		
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	6,743.55	6,743.55		
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	2,758.65	2,758.65		
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	598.30	598.30		

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Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	341.25	341.25		
1.08	Providing and fixing toilet paper holder :						
a)	Vitreous china	each	1.00	259.75	259.75		
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	180.10	720.40		
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	14,961.65	14,961.65		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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

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Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
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
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
<b>SubTotal(Sanitary Fixtures)</b>					<b>50,713.80</b>		<b>17,685.00</b>

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
<b>2.00</b>	<b>SOIL, WASTE AND VENT PIPES</b>						
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	857.30	25,719.00		
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	112.50	112.50		
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	353.25	2,119.50		
2.04	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	296.35	2,667.15		



Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	342.80	342.80		
2.06	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.						
a)	100x100x100mm						
a.i)	sand cast iron S&S as per IS-3989	Each	1.00	579.75	579.75		
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	469.40	938.80		
2.08	Providing and fixing terminal guard.						
a)	100 mm	Each	1.00	244.10	244.10		
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	238.25	476.50		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	207.85	8,314.00		
2.11	Providing Drip seal joint of approved make for the sand cast iron/centrifugally 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	61.70	61.70		
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	801.70	8,017.00		
2.14	Cutting chases in brick masonry 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):						

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
a)	100 mm diameter pipe	Metre	2.00	252.10	504.20		
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	28.75	115.00		
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

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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
2.21	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

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	77.90	779.00		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
2.27	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
<b>SUB TOTAL(SOIL, WASTE AND VENT PIPES)</b>					<b>50,991.00</b>		<b>82,241.00</b>

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
<b>3.00 WATER SUPPLY</b>							
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.						
<b>Internal work – Exposed on wall</b>							
a)	15 mm nominal outer dia pipes	Metre	5.00	133.95	669.75		
b)	20 mm nominal outer dia pipes	Metre	30.00	157.15	4,714.50		
c)	25 mm nominal outer dia pipes	Metre	25.00	197.90	4,947.50		
d)	32 mm nominal outer dia pipes	Metre	5.00	252.65	1,263.25		
e)	40 mm nominal outer dia pipes	Metre	2.00	348.25	696.50		
f)	50 mm nominal outer dia pipes	Metre		514.35			
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.						
<b>Concealed work, including cutting chases and making good the walls etc.</b>							

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
a)	15 mm nominal outer dia pipes	Metre	40.00	219.55	8,782.00		
b)	20 mm nominal outer dia pipes	Metre	25.00	243.95	6,098.75		
c)	25 mm nominal outer dia pipes	Metre	15.00	298.85	4,482.75		
d)	32 mm nominal outer dia pipes	Metre	5.00	359.80	1,799.00		
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.						
	<b>External Work</b>						
a)	50 mm nominal outer dia pipes	Metre	10.00	475.70	4,757.00		
b)	25 mm nominal inner dia pipes	Metre	25.00	250.00	6,250.00		
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	630.15	630.15		
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	372.95	745.90		
b)	32 mm nominal bore	Each	2.00	450.90	901.80		
c)	40 mm nominal bore	Each	1.00	546.05	546.05		



Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
d)	50 mm nominal bore	Each	1.00	780.60	780.60		
3.06	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	61.70	678.70		
3.08	Constructing masonry 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 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 F.P.s bricks	Each	1.00	884.70	884.70		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
3.09	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 20 mm nominal size) 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 F.P.s bricks	each	1.00	5,251.80	5,251.80		
3.10	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	7.35	36.75		
b)	20 mm nominal outer dia pipes	Metre	30.00	8.65	259.50		
c)	25 mm nominal outer dia pipes	Metre	25.00	11.40	285.00		
d)	32 mm nominal outer dia pipes	Metre	5.00	13.45	67.25		
e)	40 mm nominal outer dia pipes	Metre	2.00	16.00	32.00		
f)	50 mm nominal outer dia pipes	Metre		18.80			
3.11	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	10.55	105.50		
b)	25 mm diameter pipe	Metre	25.00	7.00	175.00		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	61.40	614.00		
b)	25 mm diameter pipe	Metre	25.00	50.00	1,250.00		
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	6.10	30,500.00		
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	397.50	1,192.50		
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	411.40	1,645.60		
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	449.35	4,942.85		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sq m )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	961.75	1,923.50		
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	152.00	1,520.00		
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	143.95	1,439.50		
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						
a)	20 mm diameter	Each	1.00			44.80	44.80
b)	25 mm diameter	Each	2.00			50.00	100.00
c)	32 mm diameter	Each	1.00			55.00	55.00

Name of Work:BOQ of Proposed Drugwarehouse (14933Sq m )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
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	5251.80	5,251.80		
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	5.15	103.00		
d)	80 mm diameter pipe	metre	30.00	15.00	450.00		
3.28	Providing and filling sand of grading zone V or coarser grade all-round the G.I./CPVC pipes in external work						

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
a)	20 mm diameter pipe	metre	20.00	55.50	1,110.00		
b)	80 mm diameter pipe	metre	30.00	99.90	2,997.00		
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	282.9	565.80		
b)	80 mm diameter pipe	each	2.00	847.10	1,694.20		
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	4018.15	4,018.15		
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	161.25	3,225.00		
b)	80 mm dia nominal bore	Metre	30.00	573.40	17,202.00		
	<b>SUB TOTAL(Water Supply)</b>				<b>137,486.60</b>		<b>9,283.00</b>

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
<b>4.00 SEWARAGE &amp; DRAINAGE</b>							
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	150.10	900.60		
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	496.90	2,981.40		
b)	150 mm diameter S.W. pipe/RCC NP2	Metre	50.00	607.70	30,385.00		
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						
a.i)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	3.00	1,280.00	3,840.00		

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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	254.50	12,725.00		
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 ( 1cement : 2 coarse sand : 4graded stone aggregate 20 mm nominal size ), foundation concrete 1:4:8 ( 1cement : 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	7,061.70	28,246.80		
4.06	Extra depth for manholes						
a)	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	4,061.70	4,061.70		



Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	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:						
a)	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	7,033.25	7,033.25		
4.08	Extra depth for circular type manhole 0.91m dia (at bottom) with beyond 0.91m to 1.67 m						
a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	0.50	3,498.25	1,749.13		

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Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
4.09	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910 on 12 mm dia steel bar conforming to IS: 1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	Each	10.00	256.75	2,567.50		
4.10	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete (including obtaining approval from DJB/Municipal corporation)						
a)	For pipes 100 to 250 mm dia	Each	1.00	275.00	275.00		
4.11	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :						

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	6.00	3,193.50	19,161.00		
4.12	Constructing brick masonry open surface drain including factory made perforated RCC cover with edge protected with MS plate of 3 mm thick with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including earth excavation, 10cm thick bed concrete 1:5:10 (1 cement: 5 fine sand :10 graded stone aggregate 40mm nominal size) and 25mm thick cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) for filling hunches including 12mm cement plaster 1:4 (1 cement:4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per standard design.						
	25cm drain 30cm average depth						
a)	With F.P.S bricks	Metre	100.00			1,800.00	180,000.00

Name of Work:BOQ of Proposed Drugwarehouse (14933Sq m )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
4.13	Constructing septic tank, of size 1.8mx1.1mx2.5m approx. height(Height to be fixed as per site requirement i.e. below invert level of last manhole (1.2 m water depth) , in brick work 1:6 cement mortar with wall thickness 230 mm upto 1.2 m & 345 mm more than 1.2 m and 300 mm (minimum) base slab all as per detail design including all excavation, 10 cm thick bed concrete in 1:4:8 (one cement: 4 fine sand: 8 stone aggregate 40 mm) cement plaster 1:3 (one cement :3 coarse sand) with a floating coat of neat cement, top slab in RCC M20, including centring, shuttering and steel work, also providing and fixing two nos.D.I. manhole cover & frame of size 560mm dia.( medium duty) and cost of 75mm dia C.I. vent pipe upto 2 m height with C.I. Ventilating Cowl and providing & fixing 150 mm dia SW tees for inlet and outlet, C.I Rungs@300 mm c/c all complete in every respect as per drawing and as directed. The agency has to provide the shop drawings (structure and PHE) as per IS requirements and obtain the approval from HSCC.	Each	1.00			30500.0	30,500.00
4.14	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.						
a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	15,228.15	30,456.30		
	<b>SUB TOTAL(SEWERAGE AND DRAINAGE)</b>				<b>144,382.68</b>		<b>210,500.00</b>

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
<b>5.00 EARTH WORK</b>							
5.01	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation,trenches or drains(not exceeding 1.5m in width or 10 sqm on plan) ,including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m						
a)	All kinds of soil	cum	10.00	130.80	1,308.00		
5.02	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:						
a)	All kinds of soil						
i)	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	60.00	165.60	9,936.00		
5.03	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m	cum	3.00	83.80	251.40		
<b>SUB TOTAL(EARTH WORK)</b>					<b>11,495.40</b>		

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Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
<b>6.00</b>	<b>RAIN WATER PIPING</b>						
6.01	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	10.00	32.75	327.50		
6.02	Providing and fixing rain water ,soil, waste and vent pipes.						
a)	100 mm dia.						
a i)	Centrifugally cast (spun) iron socketed pipe as per IS:3989	Metre	12.00	857.30	10,287.60		
b)	150 mm dia pipe as per IS:3989	Metre	25.00			2,100.00	52500.0
6.03	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	18.00	112.50	2,025.00		
b)	for 150 mm dia pipe	Each	6.00			131.6	789.6
6.04	Providing and fixing plain bend of required degree.						
a)	100 mm						
a ii)	Sand cast iron S&S as per IS:3989	Each	6.00	296.35	1,778.10		
b)	150 mm	Each	3.00			1065.0	3195.0
6.05	Providing and fixing heel rest sanitary bend.						
a)	100 mm dia						
a.ii)	sand cast iron S&S as per IS-3989	Each	6.00	342.80	2,056.80		
b)	150 mm dia	Each	3.00			1211.0	3633.0

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
6.06	Providing and fixing collar						
a)	100 mm						
a.ii)	Sand cast iron S&S as per IS-3989	Each	6.00	238.25	1,429.50		
c)	150 mm	Each	3.00			930.0	2790.0
6.07	Providing lead caulked joints to sand cast iron /centrifugally cast (spun) iron pipes and fittings of diameter:						
a)	100 mm	Each	30.00	207.85	6,235.50		
b)	150 mm	Each	12.00			401.0	4812.0
6.08	Painting sand cast iron / centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of 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	25.00	28.75	718.75		
c)	150 mm diameter pipe	Metre	12.00			60.0	720.0
	<b>SUB TOTAL(Rain Water pipe &amp; fitting)</b>				<b>24,858.75</b>		<b>68,439.60</b>

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
<b>7.00</b>	<b>BOREWELL(1 No)</b>						
7.01	Drilling by suitable rig a suit site condition from ground level in all kind of soils and weathered rock including boulders (excluding rock ) diameter of bore 150mm <b>including carry out hydrological survey report before boring &amp; getting the approval based on Hydrogeological survey before start of the work.Also getting approval from local authority if any required</b>						
a)	0-30m	metre	30.00			150.0	4500.0
b)	30-60m	metre	30.00			250.0	7500.0
c)	60-90m	metre	30.00			350.0	10500.0
7.02	Extra additional for drilling in Ordinary Rock if any found	metre	10.00			1200.0	12000.0
7.04	Providing and lowering GI casing/housing pipe 100mm dia. with wall thickness class -B standard design.	metre	30.00			800.0	24000.0
7.05	Providing & fixing GI screen/slotted pipe with 1.5 mm to 3mm (slots as per strata condition) including sockets of standard design						
a)	50 mm dia GI socketed pipe	metre	40.00			650.0	26000.0
7.06	Providing and fixing in position threaded iron cap with locking arrangement of approved design to prevent foreign matters getting into the bore-hole as required.	Each	1.00			5500.0	5500.0
7.07	Providing and laying rounded pea gravel washed & served 3 to 6 mm nominal boreas per relevant ISI code.	Cum	2.00			2000.0	4000.0



Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
7.08	Providing and laying cement concrete 1:2:4 mix for sanitary sealing of well at top.	Cum	1.00			3500.0	3500.0

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
7.09	Supplying, lowering and fixing in position reducer ,MS bail plug with "U" hooks as per IS:2800-1964.	Each	1.00			1000.0	1000.0
7.10	Development of Tubewell including testing of yield depression & quality of water (for all parameters of potable water), contractor to obtain certificate for quality for water from Competent Authority approved by client or Engineer- In -Charge.						
a)	Development of Tube well by high capacity air compressor till the clear water discharge but not more than 100 hours.	per hour	40.00			300.0	12000.0
7.12	Providing and fixing brass full way valve with C.I. wheel of approved make, tested to a pressure of 21 kg/sqcm.						
a)	40 mm dia	Each	1.00			1106.3	1106.3
7.14	Providing & fixing G.I. pipes (heavy class)confirming to IS with special fittings in external works including earthwork ,excavationin all kinds of soil including ordinary rock,refilling, painting pipes & fitting complete in all respects.						
	40 mm dia	Metre	70.00			500.0	35000.0
7.15	Providing & filling sand of grading zone V or coarser grade all around GI pipe in external work						
	40 mm dia	Metre	70.00			75.0	5250.0
7.16	Submersible pumps						

Name of Work:BOQ of Proposed Drugwarehouse (14933Sq m )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
	Providing and installing submersible pump and electrical panel suitable for 6" dia casing of bore with SS/ Brass impeller, high tensile SS/ Brass shaft, copper wound squirrel cage wet type induction motor 2880 rpm, 415 V, 50 Hz, 3 phase A.C. supply, conforming to ISS: 8034-1976, capacity 50-150 litre per minute at 30-60 m head along with a directly coupled submersible type squirrel cage electric induction 1 <b>H.P(minimum)</b> . motor suitable for operation on 400 V, 3 phase, 50 c.p.s. A.C. supply, water lubricated bearings and provided with pivoted segment type thrust bearings to withstand non-vertical lead with minimum wear and tear and duly fitted with device to take up the expansion of water with heating of motor, including supply, testing and commissioning of electrical panel from the same manufacturer, complete with all accessories in all respects.						
	including supplying laying and fixing water proof PVC insulated flat submersible cable 3 with end termination with its accessories. complete in all respect as required., fully automaticta starter, overload relay, contactor, Timer, Push Buttons and Auto-manual selector switch etc complete as required.	set	1.00			73458.0	73458.0
	<b>SUBTOTAL (BOREWELL)</b>						<b>225314.3</b>
<b>9.00</b>	<b>FIRE FIGHTING</b>						

Name of Work:BOQ of Proposed Drugwarehouse (14933Sqm )at Chattisgarh RMNCH Project under NRHM							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2012 Rate (Rs)	Amount DSR	Market Rate	Market Amount
1	2	3	4	5	6	7	8
9.01	Providing and fixing fire extinguisher of carbon dioxide type consisting of brand new high pressure steel cylinder bearing IS: 7285 mark and having the approval of controller of explosives Nagpur, wheel type valve bearing IS:3224/15683 mark internal discharge tube, 1 meter long high pressure discharge hose, non conducting horn, suspension bracket, fully charged bearing IS: making fixed to wall as directed.						
	4.5kg capacity cylinder	each	2.00			6,900.00	13,800.00
9.02	Providing and fixing 9 liters capacity fire extinguisher water type gas pressure conforming to IS marking, fixed to wall.IS:15683	each	2.00			1,642.00	3,284.00
9.03	Providing and fixing ABC type fire extinguishers complete in all respects. IS:15683 ISI marked Capacity 6.0 Kg.	each	2.00			2,200.00	4,400.00
9.04	Providing and fixing ABC type automatic modular ceiling mounted type extinguisher with body powder coated 10 lts. Capacity min. 300 mm dia 68 degree centigrade bul temperature complete in all respect of approved make and model	each	1.00			8,000.00	8,000.00
	<b>SUBTOTAL (FIRE FIGHTING)</b>						<b>29484.0</b>
	<b>Note: Based on the tender drawing the agency has to prepare the internal &amp; external plumbing &amp; fire fighting shop drawing and obtain the approval of the same before start of work</b>						
End of phe BOQ							

**SUMMARY OF BILL OF QUANTITY FOR ELECTRICAL WORKS OF REGIONAL DRUG WAREHOUSE AT CHATTSGARH**

<b>S.No.</b>	<b>DESCRIPTION</b>	<b>Amount In Figure (In Rs.)</b>	<b>Amount in Words (Rs.)</b>
1	<b>SUBHEAD 1: MAIN LT PANEL.</b>	371000	
2	<b>SUBHEAD 2: MCB DISTRIBUTION BOARDS.</b>	77385	
3	<b>SUBHEAD 3: WIRING</b>	1081250	
4	<b>SUBHEAD: 4 - LIGHT FIXTURE AND FANS</b>	495796	
5	<b>SUBHEAD 5 : TELEPHONE SYSTEM</b>	35700	
6	<b>SUBHEAD 6: CONDUITING FOR COMPUTER SYSTEM .</b>	18450	
7	<b>SUB HEAD 7: LT CABLES</b>	51990	
8	<b>SUB HEAD :8 EARTHING, SAFETY EQUIPMENTS AND MISC.</b>	91906	
9	<b>SUB HEAD 9: OUT DOOR LIGHTING</b>	32000	
	<b>GRAND TOTAL FOR ALL ELECTRICAL WORKS</b>	<b>2255477</b>	
	<b>Quoted Rate in percentage above or below (in figure)</b>		
	<b>Quoted Rate in percentage above or below (in words)</b>		

## BILL OF QUANTITY FOR ELECTRICAL WORKS OF REGIONAL DRUG WAREHOUSE AT CHATTISGARH

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
<b>1.00</b>	<b>SUBHEAD 1: MAIN LT PANEL.</b>				
<b>1.01</b>	<b>MAIN ELCTRICAL PANEL cum AMF panel</b>				
	Supply, installation, testing and commissioning of LT Panel, cubicle type, totally enclosed, free standing type, dust ,damp and vermin proof panel , powder coated, made up of CRCA sheet, complete with aluminum busbars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchgears with cable alley in front as mentioned below and complete as per technical specifications and as required. The size of cable alley shall be sufficient enough to accommodate the cable sizes as mentioned in the SLD/ specifications/ drawings etc.				
	<b>Note :</b>				
<b>i</b>	Digital Multifunction metre should be suitable for true RMS metering.Metre should measure line and phase voltage , current of all three phases and neutral, HZ, PF, KW, KWH, including one set of CT.				
<b>A.</b>	<b>INCOMER: 1 nos.</b>				
<b>i</b>	<b>2 Nos. MCCB FEEDER as per following details/ specifications:</b>				
	100 Amp 415 volts, 35 KA ( lcs) TPN MCCB with variable current settings and having microprocessor based O/L, S/C & E/F protection release.				
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.				
	Indicating lamps (LED Type) with 2A protection MCBs to indicate OPEN, CLOSE, TRIP .				
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.				

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	Digital multi function meter with one set of suitable CTs, CT shorting links, R/Y/B LED indicating lamps and 2A control SP MCBs				
ii	<b>AMF panel for 62.5 KVA DG Set</b>				
	AMF relay with selector switch and its allthe essential component / switchgears for AMF.				
a)	<b>PROTECTION AND AMF COMPONENTS 62.5 KVA DG set.</b>				
	Auto/manual/test/off selector switch				
	Suitable AMF Relay, 02 Nos. Four Pole Contractor one for Mains and other for DG set of suitable rating for 62.5 KVA DG set				
	MCCB for short circuit protection on both mains and for alternator				
	2 Nos over voltage relay, 2 nos. reverse power relay and 2 nos. under voltage relay.				
	3 sets of current transformers 15 P 10 accuracy for protection and 15 VA class - I for metering				
	Indicating lamps for load on mains and load on set.				
	Fuse for instruments.				
	Battery charger, complete with transformer/rectifier, DC voltmeter and ammeter, selector switch for trickle, off and boost the current adjustment.				
	Main supply failure monitor.				
	Supply failure timer				
	Restoration timer.				
	Control unit with three impulse automatic engine start / stop and failure to start lockout.				
	Impulse counter with locking and reset facility.				
	On/Off/ Control circuit switch with indicator.				
	Indicating lamp for shut down				
	High stator temperature.				
	Low lubricating oil pressure				
	Engine over speed				
	Engine fails to start				

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	Full load/ maximum load warning.				
	One hour meter to indicate the number of hours set has operated				
	8 window alarm annunciator panel with hooter, push buttons, aux contactors etc. as required as per specification.				
	Mains supply voltage sensing relay				
	Emergency stop push button.				
	Selector switch for engine control ON/OFF				
	Instantaneous Earth Fault Relay Through Neutral.				
	Digital electronic KWH meter with metering Class-I CT's				
	Digital Electronics Frequency meter				
	Digital Electronic KW meter with metering class-I CT's				
	Control/Power Wiring and necessary electrical/ mechanical interlocking etc any other item required for proper functioning of the system complete as required.				
<b>B.</b>	<b>BUSBARS :</b>				
	200 Amps Phase Four Pole busbars of aluminum.				
<b>C</b>	<b>OUTGOING.</b>				
	<b>i) 5 Nos. MCCB as per following specifications:</b>				
	63 Amp 415 volts,25 KA (Isc), TP+NL MCCB with thermal magnetic release having variable current settings .				
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.				
	Indicating lamps (LED Type) with 2A protection MCBs to indicate OPEN, CLOSE, TRIP .				
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.				
	<b>ii) 2 Nos. MCCB as per following specifications:</b>				



S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	32 Amp 415 volts,25 KA (Isc), TP+NL MCCB with thermal magnetic release having variable current settings .				
	Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers.				
	Indicating lamps (LED Type) with 2A protection MCBs to indicate OPEN, CLOSE, TRIP .				
	Digital Ampere Metre of suitable range with suitable set of CT's and ASS.				
	<b>iii)</b> 3 no. 63 Amps , 415 volts, 9 KA ,Four Pole, Miniature Circuit Breaker, with ON/ OFF indication.				
	<b>iv)</b> 3 no. 40 Amps , 415 volts, 9 KA ,Four Pole, Miniature Circuit Breaker, with ON/ OFF indication.				
	<b>v)</b> 2 no. 32 Amps , 240 volts, Double Pole, Miniature Circuit Breaker,				
	<b>Total SubHead 1: Main LT Panel Cum AMF Panel as mentioned above.</b>	Set	1	371,000	<b>371000</b>

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	<b>SUBHEAD 2: MCB DISTRIBUTION BOARDS.</b>				
<b>2.00</b>	<b>MCB DISTRIBUTION BOARD</b>				
	Supplying & fixing following way, three pole and neutral, supply distribution with(PPI) Per Phase Isolation Horizontal DB with CRCA sheet steel, Powder coated, provision to mount 2P RCCB in each phase as subincomers equipped with colour coded wires, MCB distribution board, 415 volts, on recess/surface complete, terminal blocks, tinned copper busbar, neutral link, earth bar, Glazed Door, Door earthing, Insulated neutral bar, Cable Ties, Blank Plate & Ckt. identification levels, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. Before procurement of DB the contractor has to take approval of DB schedule/ drawing of each DB from the Electrical Engineer, HSCC, as per technical specifications and as required. (but without MCB & RCCB),				
	Note: I/c - Four Pole MCB with RCCB, Sub I/C- 2Pole RCCB, O/G- SP MCB				
	<b>i</b> 4 +2 way (8+6+12), Double door	Each	2	3905	7810
	<b>ii</b> 6 +2 way (8+6+18), Double door	Each	2	4613	9226
<b>2.01</b>	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, B /C/D curve, miniature circuit breaker suitable for inductive load and lighting load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	<b>i)</b> Single pole	Each	60	187	11220

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
2.02		Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	i)	25 amps-40amp (100-300 MA)	Each	12	1619	19428
2.03		Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	each	6	629	3775
2.04		Supplying & fixing following rating, Four pole, 415 volts, Miniature Circuit Breaker (MCB), in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications and as required.				
	i)	(40-63 )Amps	Each	6	2095	12570
2.05		Supplying & fixing following rating, four pole, 415 volts, Residual Current Circuit Breaker (RCCB) having a sensitivity current upto 300 mA in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications and as required.				
	i)	40-63 Amps	Each	6	2216	13296
2.06		Supplying and fixing Single pole Blanking plate in the existing MCB DB complete as required.	Each	10	6	60
		<b>TOTAL SUB HEAD-2: MCB DISTRIBUTION BOARDS AS MENTION ABOVE .</b>				<b>77385</b>

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	<b>SUBHEAD 3: WIRING</b>				
<b>3.00</b>	<b>WIRING</b>				
	<b>i)</b> Wiring for light point/fanpoint/ exhaust fan point/call bell point with 1.5 sq.mm. PVC insulated, fire retardant low smoke (FRLS) copper conductor cable, single core/ multi strand, in steel conduit (Including supplying & recess laying of MS conduit and accessories) including the following and complete as required.				
	<b>ii)</b> Supplying and Fixing Modular type switches (modular Bell push in case of call bell points) in suitable size modular metal boxes, base plate & modular cover plates, space for fixing electronic fan regulator in case of fan point wiring & space for fixing 5A socket on the board etc.				
	<b>iii)</b> Supplying & Fixing Ceiling Rose in case of Exhaust Fan Points etc.				
	Note :				
	i) Unless otherwise specified all the conduiting work to be done in recess				
	<b>Point wiring as mentioned above</b>	Point	190	1316	250040
<b>3.01</b>	Wiring for 5A light plugs with 1.5 sq.mm. PVC insulated, FRLS copper conductor cable including one number 1.5 sq.mm. PVC insulated, copper conductor cable for earthing in surface/recessed ISI marked MS conduit (including supply and recess laying of ISI marked MS conduit) as per technical specifications and as required.	meter	100	241	24100
<b>3.02</b>	Wiring for (Three sockets 5A & one switch 10Amp) with 2.5 sq.mm. PVC insulated, FRLS copper conductor cable including one number 2.5 sq.mm. PVC insulated, copper conductor cable for earthing in surface/recessed MS conduit (including supply and recess laying of conduit) as per technical specifications and as required. <b>(For Computer )</b>	meter	90	273	24570

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
<b>3.03</b>		Wiring for 16 amp power plug with 2X4 sqmm PVC insulated, FRLS copper conductor, single core/multi strand cable in surface/recessed MS conduit (including supply and recess laying of MS conduit with all accessories) along with 4 sqmm PVC insulated, copper conductor, single core/multi strand cable for loop earthing etc per technical specifications & as required.				
	<b>i</b>	Directly from MCB-Distribution Board to the Socket Outlets	Meter	420	311	130620
<b>3.04</b>		Wiring for 20 Amp /32 Amp power plug with 2X6 sq.mm. PVC insulated, FRLS copper conductor multi strand cable in surface/recessed in MS conduit (including supply and recess laying of MS conduit with all accessories) along with 1X6 sqmm PVC insulated FRLS copper conductor for loop earthing, as per technical specifications & as required.	Meter	100	418	41800
<b>3.05</b>		Wiring for Submain/circuit wiring with following size of PVC insulated FRLS copper conductor single core/multi strand cable in recessed steel conduit (including supply & laying of recessed conduit) as required.				
	<b>i)</b>	2X2.5 Sqmm with 1 No. 2.5 sqmm PVC insulated FRLS copper conductor for earthing.	Metre	1900	237	450300
	<b>ii)</b>	4X6 Sqmm with 2 No. 6 sqmm PVC insulated FRLS copper conductor for earthing	Metre	30	587	17610
	<b>iii)</b>	4X10 Sqmm with 2 No. 10 sqmm PVC insulated FRLS copper conductor for earthing	Metre	100	1035	103500
<b>3.06</b>		Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing 3 pin 5/6 amps. modular socket outlet with shutters and 5/6 amps. modular type switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required.	Each	10	376	3760

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
3.07	Supplying and fixing suitable module modular metal box on surface or in recess including providing and fixing 6 pin 15/16 A modular socket outlet with shutters and 15/16 A modular switch, base plate, modular cover plate, connections, etc. and all civil works complete as required.	Each	30	452	13560
3.08	Supply, Installation, Testing & Commissioning 63 Amps four pole MCCB in a sheet steel enclosure with extended rotary operating mechanism complete with all accessories as required.	Each	1	7000	7000
3.09	Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing three nos 3 pin 5/6 amps. modular socket outlet with shutters and one no. 10 amps. modular type switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required. (Computer )	Each	6	832	4992
3.10	Supply and fixing following AC Moduler box complete with 20/32 AMP SP MCB with 20/32 AMP socket with plug for 240 volt supply on surface or recess complete with all accessories including connections, testing and commissioning etc. as required.	Each	6	800	4800
3.11	Supply and fixing 3phase 20/ 32 amp industrial socket with TPN MCB in sheet metal enclouser on surface/ recess complete with all accessories including connection, testing and commissioning etc. as required.	Each	2	1219	2438
3.12	Supplying, providing & fixing musical bell of approved make complete as required.	Each	4	540	2160
	<b>TOTAL SUBHEAD: 3- WIRING</b>				<b>1081250</b>

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	<b>SUBHEAD: 4 - LIGHT FIXTURE AND FANS</b>				
<b>4.00</b>	<b>LIGHT FIXTURES AND FANS</b>				
<b>4.01</b>	Supply of following light fixture with high efficiency electronic/ dimmable ballast, starter, tubes/lamps, capacitor, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories as required.				
	i 1XTL-5 28 watt box type flourescent light fixture without reflector (Philips TMS 122M 1XTL5 28 W EBT or approved equivalent) (136b/136bw)	Each	40	1870	74800
	ii 1X36 watt surface mounted type flourescent light fixture with opal acrylic diffuser (Philips TCS019 1XTL-D36W EBT or approved equivalent) (136AC1)	Each	4	1645	6580
	iii 2X36 watt Surface/recessess mounted flourescent light fixture (Philips TCS 306 2XTL-D-36W HF EBT 236 or approved equivalent) 236SMO1	Each	80	2336	186880
	v 2X 36 watt recess mounted clean room flourscent light fixture with bottom opening and toughened glass (Philips TBS 670 2X36W TL-D FOP GT or approved equivalent). (236CRF)	Each	16	7500	120000
<b>4.02</b>	Supply of following compact flourescent light fixture with electronic ballast, starter, capacitor, yellow light lamps, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories as required.				
	i 1x9 watt Bulk Head light fixture (Philips FXC 101 1XPL-S/2P11 W ACO or approved equivalent) BH	Each	1	1179	1179
	ii 2X18 watt Mirror top light with frosted glass (Decon 05CA 01 or approved equivalent)	Each	6	1530	9180
	iii Surface mounted Batten holder (Plastic) with 9watt/13 watt CFL	Each	5	200	1000

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	ii	2 X 18 watt surface mounted down light (Philips FCS 518 2XPLS/2P 11 W I 240 V or approved equivalent) (211CFLRECT) (TOILETS DL-1)	Each	5	2027	10135
4.03		Supply of following ceiling fans (Crompton Greaves High Breeze or approved equivalent) complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type 5 STEP electronic fan regulator, suitable for operation on 230 volts, 50 Hz., 1 phase, AC supply complete as required				
	ii	1400 mm sweep	Each	22	2400	52800
4.04		Supply of 900 RPM, 450 mm (Crompton Greaves Trans Air or approved equivalent) exhaust fan suitable for single phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required.	Each	2	4200	8400
4.06		Supply of 450 mm sweep, crompton greaves model high flow 18" wall mounted fan complete with double ball bearing, motor, blades, capacitor etc suitable for single phase 230 volts, 50 Hz., AC supply, complete as required.	Each	2	4010	8020
4.07		Installation, testing and commissioning of prewired, flourescent fittings of all types, complete with all accessories and tube etc. directly on ceiling/wall, including connections with 1.5 sq.mm. PVC insulated, FRLS copper conductor, single core/ multi strand cable etc. as required.	Each	140	70	9800
4.08		Installation, testing and commissioning of prewired, compact flourescent lamp fixture (CFL fxtures)of all types, complete with all accessories and lamp etc. directly on ceiling/wall, including connections with 1.5 sq.mm. PVC insulated, FRLS copper conductor, single core/ multi strand cable etc. as required.	Each	12	70	840



S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
4.09	Installation, testing and commissioning of ceiling fan and modular type electronic fan regulator(Electronic regulator to be fixed in switch board) including wiring the down rod and connection with 1.5 sqmm FR PVC insulated, copper conductor single core/multi strand cable including providing & fixing phenolic laminated sheet cover on the fan box, etc. as required.	Each	22	120	2640
4.10	Installation, testing and commissioning of exhaust fan up to 450 mm sweep in the opening, including making the hole to suit the size of the above fan including , fixing of louvers/ shutters with frame making good the damages etc. as required.	Each	2	281	562
4.11	Installation, testing and commissioning of wall mounted fan up to 450 mm sweep including supply and fixing wall bracket arrangement complete as required.	Each	2	60	120
4.12	Supplying and fixing Hexagonal fan Boxes with 3 mm thick hylem sheet covers in case of Fan Points	Each	22	130	2860
<b>TOTAL SUBHEAD 4 : LIGHT FIXTURE &amp; FANS</b>					<b>495796</b>

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
		<b>SUBHEAD 5 : TELEPHONE SYSTEM</b>				
<b>5.00</b>		<b>TELEPHONE SYSTEM</b>				
<b>5.01</b>		Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
	<b>i</b>	2 Pair	Metre	120	23	2760
<b>5.02</b>		Supplying, Installation, testing and commissioning of following sizes of telephone distribution board in M.S. hinged type lockable box duly painted complete with Krone type tag block etc. including terminations of cable as required.				
	<b>i</b>	10 Pair	Each	1	1500	1500
<b>5.03</b>		Supplying and drawing of following pairs .5 mm dia annealed bare copper conductor Polythene insulated, core twisted into pairs armoured telephone cable on surface/tray with saddels etc. complete as required.				
	<b>i</b>	10 Pair	Metre	30	210	6300
<b>5.04</b>		Supplying and fixing of following sizes of rigid PVC conduit heavy duty along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
	<b>i</b>	20 mm	Metre	150	110	16500
	<b>ii</b>	25 mm	Metre	40	126	5040
<b>5.05</b>		Supply, installation, testing and commissioning of following telephone instruments as per technical specification and as required :				
	<b>i)</b>	Electronic push button subscriber telephone instruments DOT approved. (To Be approved by HSCC Engineer at the time of supply)	Each	6	600	3600
		<b>TOTAL SUB HEAD 5:TELEPHONE SYSTEM</b>				<b>35700</b>

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
		<b>SUBHEAD 6: CONDUITING FOR COMPUTER SYSTEM .</b>				
<b>6.00</b>		<b>CONDUITING FOR COMPUTER SYSTEM .</b>				
<b>6.01</b>		Supplying and fixing of following sizes of rigid PVC conduit heavy duty along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
	<b>i</b>	20 mm dia	Metre	120	110	13200
	<b>ii</b>	25 mm dia	Metre	30	126	3780
<b>6.02</b>		Supplying and fixing two module modular plate (suitable for RJ-45 computer socket) with GI box complete as required.	Each	6	245	1470
		<b>TOTAL SUB HEAD:7 CONDUITING FOR COMPUTER SYSTEM</b>				<b>18450</b>

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
		<b>SUB HEAD 7: LT CABLES</b>				
<b>7.00</b>		<b>LT CABLES</b>				
<b>7.01</b>		Supply of following sizes of 1.1 kV grade multicore aluminum conductor armoured XLPE cable as per IS 7098.				
	<b>i</b>	3.5C X 50 Sq.mm	Metre	50	282	14100
	<b>ii</b>	3.5C X 25 Sq.mm	Metre	30	179	5370
	<b>iii</b>	2 Core 4 Sq mm	Metre	50	75	3750
<b>7.02</b>		Supply , Laying , termination of cable including lugs and cable gland on surface/ tray/trench of following sizes of 1.1 kV grade XLPE armoured control cable with copper conductor as per IS 7098.				
	<b>i</b>	2x2.5 sq mm	Metre	30	100	3000
	<b>ii</b>	16x 2.5 sqmm	Metre	30	500	15000
<b>7.03</b>		Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required				
	<b>i</b>	Size not exceeding 25 sq.mm	Metre	30	116	3480
	<b>ii</b>	Size exceeding 25 sq.mm but not exceeding 120 sq.mm	Metre	30	124	3720
<b>7.04</b>		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
	<b>i</b>	Size not exceeding 25 sq.mm	Metre	10	20	200
	<b>ii</b>	Size exceeding 25 sq.mm but not exceeding 120 sq.mm	Metre	10	29	290
<b>7.05</b>		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
	<b>i</b>	Size not exceeding 25 sq.mm	Metre	20	42	840

S.No.		Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	<b>ii</b>	Size exceeding 25 sq.mm but not exceeding 120 sq.mm	Metre	10	70	700
<b>7.06</b>		Supplying and making end termination with suitable size aluminium lugs including double compression glands of following sizes of 1.1. kv grade multicore aluminum conductor PVC insulated and PVC sheathed				
	<b>iv</b>	3.5C X 50 Sq.mm	Each	4	215	860
	<b>vi</b>	3.5C X 25 Sq.mm	Each	4	110	440
	<b>vii</b>	2 Core 4 Sq mm	Each	6	40	240
		<b>TOTAL SUB HEAD 7: LT CABLES AS MENTIONED ABOVE</b>				<b>51990</b>

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
<b>8.00</b>	<b>SUB HEAD :8 EARTHING, SAFETY EQUIPMENTS AND MISC. ITEMS</b>				
<b>8.01</b>	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2	10000	20000
<b>8.02</b>	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Metre	4	5000	20000
<b>8.03</b>	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	6	108	648
<b>8.04</b>	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	12	402	4824
<b>8.05</b>	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	12	1058	12696
<b>8.06</b>	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	30	132	3960
<b>8.07</b>	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	30	843	25290

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
8.08	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	6	748	4488
	<b>TOTAL SUB HEAD 8: EARTHING, SAFETY EQUIPMENT AND MISC. ITEMS</b>				<b>91906</b>

S.No.	Description.	Unit.	TOTAL QTY	Rate in Figures (in Rs.)	Amount (in Rs)
	<b>SUB HEAD 9: OUT DOOR LIGHTING</b>				
<b>9.00</b>	<b>OUT DOOR LIGHTING</b>				
9.01	Supply, installation, testing and commissioning of external post top lantern with following accessories and complete as required :				
	i) 6m high 80mm dia GI pole as approved, adopting socket at top for fixture mentioned below, base plate 300 x 300 x 6mm and provision for mounting junction box etc. - 1 set.				
	ii) 1 x 70 W Post top lantern with 70W HPSV lamp (Philips SPC 101 x SON 70 W E or equivalent) and its wiring with 2 x 2.5 sq.mm PVC insulated copper wire and 1.5 sqmm PVC insulated copper earth wire from control box				
	iii) Suitable size 20A DP MS Control box with 2 no. incoming and outgoings terminals and 2 nos. tap-out terminal with 1 nos. 5A HRC fuses complete 1 set.				
	iv) Suitable number(s) 40mm dia Class-B GI Pipe(s) from above control box to upto 0.5 metre below ground level for power cable entry				
	v) Providing 400x400x1000mm deep 1:3:6 ratio cement concrete including excavation shuttering alignment of poles casting etc. including 100mm thick lean concrete shall be provided at the bottom				
	Supply, installation, testing and commissioning of external post top lantern as mentioned above description	Set	4	8000	32000
	<b>TOTAL SUB HEAD 9: OUTDOOR LIGHTING</b>				<b>32000</b>
	<b>GRAND TOTAL FOR ALL ELECTRICAL WORKS</b>				<b>2255477</b>



<b>BILL OF QUANTITIES (B.O.Q.) FOR HVAC WORKS FOR "REGIONAL DRUG WAREHOUSE, CHHATTISGARH"</b>					
<b>ITEM NO</b> 1	<b>DESCRIPTION OF ITEM</b> 2	<b>QTY.</b> 3	<b>UNIT</b> 4	<b>RATE IN FIGURES (in RS)</b> 5	<b>AMOUNT (Rs.)</b> 6
<b>1.0</b>	<b>SPLIT AIR CONDITIONERS</b>				
	Supply , installation , testing and commisioning of HI wall split air conditioner comprising of the following.				
	a) Outdoor condensing Units				
	b) Indoor Evaporative Units				
	c) Interconnecting Refrigerant and drain piping with insulation wherever required, refrigerant and oil. The unit shall include refrigerant piping, power cabling and drain piping.				
	d) Safety and operational controls				
	e) Hiwall splits shall be suitable for single phase power supply and complete with suitable rating voltage stablizer.				
	f) Mounting arrangement and structural supports for outdoor unit are included.				
	g) The units should have 3 star rating from BEE.				
1.1	Capacity : 2.0 TR	2	Nos.	65092	130184
1.2	Extra Refrigerant Piping	15	Rmt.	350	5250
1.3	Extra drain piping	15	Rmt.	250	3750

ITEM NO 1	DESCRIPTION OF ITEM 2	QTY. 3	UNIT 4	RATE IN FIGURES (in RS) 5	AMOUNT (Rs.) 6
2.0	<b>Window Air Conditioner</b>				
	Supply , installation , testing and commisioning of Window Acs complete with transformer, electrical cabling as required along with mounting arrangement and Voltage stablizer. Complete in all respect as per specifications. The units should have 3 star rating from BEE.				
	Capacity				
2.1	2.0 TR	2	Nos.	53132	106264
	<b>TOTAL</b>				<b>245448</b>