

Name of Work:BOQ of Proposed Drugwarehouse at various locations in Chattisgarh under NRHM Project							
Sl. No.	Description of Item	Unit	Total qty.	DSR 2013 Rate (Rs)	Amount DSR-13	Market Rate	Market Amount
1	2	3	4	5	6	7	8
4.09	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	295.20	2,952.00		
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	330.50	330.50		
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 :						

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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	3,774.95	22,649.70		
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	1,80,000.00

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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	1811.5	3,622.90		
SUB TOTAL(SEWERAGE AND DRAINAGE)						1,37,145.15	2,10,500.00

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1	2	3	4	5	6	7	8
5.00	EARTH WORK						
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	146.5	1,465.00		
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	192.8	11,565.00		
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	101.50	304.50		
SUB TOTAL(EARTH WORK)					13,334.50		

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1	2	3	4	5	6	7	8
6.00	RAIN WATER PIPING						
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	37.25	372.50		
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	952.50	11,430.00		
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	140.65	2,531.70		
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	334.50	2,007.00		
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	370.5	2,223.00		
b)	150 mm dia	Each	3.00			1211.0	3633.0

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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	317.05	1,902.30		
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	232.30	6,969.00		
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	33.85	846.25		
c)	150 mm diameter pipe	Metre	12.00			60.0	720.0
SUB TOTAL(Rain Water pipe & fitting)					28,281.75		68,439.60

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1	2	3	4	5	6	7	8
7.00	BOREWELL(1 No)						
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 including carry out hydrological survey report before boring & getting the approval based on Hydrogeological survey before start of the work.Also getting approval from local authority if any required						
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
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

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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						

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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 H.P(minimum) . 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
	SUBTOTAL (BOREWELL)						225314.3
8.00	Miscellaneous						
8.01	Providing the following brand new vehicle at any time for exclusive use of engineer during currency of contract.The number of vehicles and period shall be informed by the engineer as per requirement.The rate are inclusive of service of drivers, fuel, oil, consumable and maintenance etc complete.						
a)	Indica or equivalent as required	Km	5,000.00			10.0	50000.0
	SUBTOTAL (Miscellaneous)						50000.0

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1	2	3	4	5	6	7	8
9.00	FIRE FIGHTING						
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
	SUBTOTAL (FIRE FIGHTING)						29484.0
	Note: Based on the tender drawing the agency has to prepare the internal & external plumbing & fire fighting shop drawing and obtain the approval of the same before start of work						
End of phe BOQ							

**ABSTRACT OF COST ELECTRICAL WORKS FOR CONSTRUCTION OF DISRICT DRUG
WAREHOUSE, UNDER NRHM (CG)**

S.No.	Description	Amount In Figure (In Rs.)
1	SUBHEAD 1 : DG SET & ACCESSORIES	996300
2	SUB HEAD 2: MV PANELS	456200
3	SUB HEAD 3- : MCB DISTRIBUTION BOARDS.	56156
4	SUB HEAD 4: WIRING	658275
5	SUB HEAD 5: LIGHT FIXTURE AND FANS	382549
6	SUB HEAD 6: TELEPHONE SYSTEM	18105
7	SUB HEAD 7: LT CABLES	413196
8	SUBHEAD 8: EARTHING, SAFETY EQUIPMENTS AND MISC.	474168
9	SUBHEAD 9: OUT DOOR LIGHTING	285600
	GRAND TOTAL FOR ALL ELECTRICAL WORKS	3740549

BOQ OF ELECTRICAL WORKS FOR CONSTRUCTION OF DISTRICT DRUG WAREHOUSE, UNDER NRHM (CG).

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
1.00	SUBHEAD 1 : DG SET & ACCESSORIES				
1.01	SOUND PROOF DG SETS OF 100 KVA.				
	DG SET OF 100 KVA including AMF PANEL				
	Supply, installation, testing and commissioning of sound proof (silent type) Diesel Generating set having 100 KVA Prime Power Ratings , 415 volt at 1500 RPM, 0.8 power factor suitable for 50 Hz, 3 phase system , suitable bhp, Water cooled Radiator type diesel engine- alternator set mounted on common base frame, return fuel cooler, battery & battery charger, Anti Vibration mounting pads, Engine alternator safeties, electronic governor including all accessories, their wiring and control cable between DG set and panel etc. is also in the scope of supply, including its connections etc. complete as per technical specification This includes the following:				
	- Supplying and fixing of suitable sizes Heavy class MS pipe for DG exhaust complete with bends, elbow, flanges etc including silencer and catalytic convertor exhaust pipe chimney as per CPCB norms for exhaust of DG sets.				
	- Supply and fixing of 50mm thick compressed mineral wool insulation (Rock wool) for D.G. exhaust pipe with 24 gauge aluminium sheet cladding etc. as required for the under mentioned dia pipe.				
	- Supply, installation, testing and commissioning of suitable size fuel pipe for connecting diesel engine to individual day service tank including supply and fixing of required valves & filters etc. as required.				

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
-	Fabrication of supports for exhaust pipe, fuel pipe or for any other purpose out of suitable M.S. structural steel including supplying and applying of enamel paint of approved shade after one coat of steel primer of reputed company.				
-	Supplying and fixing of suitable capacity cable adapter box for alternator.				
-	Providing and fixing oil tank of 990 litres capacity complete with suitable M.S. fabricated MS stand oil level indicator gauge tank and stand duly painted, complete with float switches etc. as required.				
-	Factory assembled Sound proof Canopy as per pollution control board requirement to achieve noise level desired during night condition, with base frame, doors, inspection window, fresh air supply fans etc				
-	Any other item required for completion of system above (D.G. set).				
C.	ENCLOSURE :				
	Fabrication, PVC Sleeving, Control/Power Wiring and necessary electrical/ mechanical interlocking etc any other item required for proper functioning of the system complete as required.				
	DG SET WITH AMF Panel as mentioned above	Set	1	996300	996300
	TOTAL SUBHEAD 1: DG SETS AS MENTIONED ABOVE				996300

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
2.00	SUB HEAD 2: MV PANELS				
	Supply, installation, testing and commissioning of following M.V. cubicle type totally enclosed, wall mounted/Free standing type, powder coated, dust, damp and vermin proof, indoor type Distribution Board/Panel complete with busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, and having following incoming and outgoing switchgears complete as per technical specification and as required.				
	NOTE				
	All MCCBs shall have Ics=Icu=100%				
	MCB Should be connected through terminal Strip of suitable rating				
2.01	MV PANEL: GROUND FLOOR				
	a) INCOMER:				
	250 Amp 415 volts, 35 KA (Ics=Icu=100%) FP MCCB with variable current settings and having microprocessor based Instantaneous overcurrent , O/L, S/C & E/F protection release.				
	R,Y&B phase indicating lamp (LED type) with 2A/6A control SP MCB				
	ON, OFF, TRIP indication(LED Type)				
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.				
	1 No. 0 to 500 V Digital voltmeter with selector switch.				
	Digital ammeter & KWH meter with selector switch with one set Suitable C.Ts.				

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	b) BUSBARS:				
	400Amp TPN Aluminium busbars				
	c) OUTGOING:				
	i) 9 Nos. MCCB as per following details / specifications:				
	63 Amps,415 volts, (Ics= Icu=100%)TP+NL, 35 KA Moulded Case Circuit Breaker with thermal magnetic release having variable current settings .				
	ON, OFF, TRIP indication(LED Type)				
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.				
	iii) 8 no. 63 Amps , 415 volts, 9 KA ,Four Pole, Miniature Circuit Breaker.				
	MV PANEL : AS MENTIONED ABOVE	Set	1.00	247700	247700
2.02	Supply, installation, testing and commissioning of factory Fabricated Contractor switched standard APFC Panel of 35 kVAr similar to (L&T etaSYS -MH-1 Cat no LTAPMH0351B2) or or approved equivalent complete	set	1.00	208500	208500
	TOTAL SUB HEAD 2: MV PANEL AS MENTIONED ABOVE				456200

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	SUB HEAD 3- : MCB DISTRIBUTION BOARDS.				
3.00	MCB DISTRIBUTION BOARD				
3.01	Supplying & fixing following way, three pole and neutral sheet steel, MCB distribution board, 415 volts,on recess/surface complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar,din bar, detachable gland plate, interconnections, phosphatized and powder coated including earthing connection bolt etc. as per technical specifications and as required.(but without MCB & RCCB).				
	i 4 way (8+12), Double door	Each	1	2970	2970
	ii 6 way (8+18) Double door	Each	1	3595	3595
	iii 8 way (8+24), Double door	Each	3	4202	12606
3.02	Supplying & fixing 6 Amps to 32 Amps rating, 240 volts,'B' series, miniature circuit breaker suitable for lighting & other loads of following poles in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications & as required.				
	i Single pole	Each	102	169	17238
3.03	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 25 Amps	Each	1	900	900
	ii 40 Amps	Each	2	1280	2560
	iii 63 Amps	Each	3	1280	3840
3.04	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.				

S.No.		Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	i	25 Amps	Each	1	1907	1907
	ii	40 Amps	Each	2	1900	3800
	iii	63 Amps	Each	3	2200	6600
3.05		Supplying and fixing Single pole Blanking plate in the existing MCB DB complete as required.	Each	20	7	140
		TOTAL SUB HEAD-3: MCB DISTRIBUTION BOARDS AS MENTIONED ABOVE				56156

S.No.		Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
		SUB HEAD 4: WIRING				
4.00		WIRING				
4.01	i	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.				
	ii	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.				
	iii	Supplying and fixing Hexagonal fan Boxes with 3 mm thick hylem sheet covers in case of Fan Points				
	iv	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				
		Point wiring as mentioned above	Point	140	1003	140420
4.02	i	Wiring for twin control light points with 1.5 sq.mm. PVC insulated, FRLS copper conductor cable in MS conduit (including supplying and recess laying of MS conduit) including the following and complete as required.				
	ii	Supplying and Fixing Modular type two numbers 2 Way switches in suitable size modular metal boxes, base plate & modular cover plates etc.				
		Note :				
		i) Unless otherwise specified all the conduiting work to be done in recess				
		Wiring for twin control light points as mentioned above	Point	5	1069	5345

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
4.03	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.				
i	2X1.5 Sqmm with 1 No. 1.5 sqmm PVC FRLS insulated, copper conductor for earthing.	Metre	150	175	26250
ii	2X2.5 Sqmm with 1 No. 2.5 sqmm PVC FRLS insulated, copper conductor for earthing.	Metre	260	200	52000
iii	2X4 Sqmm with 1 No. 4 sqmm PVC insulated FRLS copper conductor for earthing	Metre	375	231	86625
iv	2X6 Sqmm with 1 No. 6 sqmm PVC insulated FRLS copper conductor for earthing	Metre	300	315	94500
v	2X10 Sqmm with 1 No. 10 sqmm PVC insulated FRLS copper conductor for earthing	Metre	50	417	20850
vi	4X4 Sqmm with 2 No. 4 sqmm PVC insulated FRLS copper conductor for earthing	Metre	20	365	7300
vii	4X6 Sqmm with 2 No. 6 sqmm PVC insulated FRLS copper conductor for earthing	Metre	50	509	25450
viii	4X10 Sqmm with 2 No. 10 sqmm PVC insulated FRLS copper conductor for earthing	Metre	100	803	80300
ix	4X16 Sqmm with 2 nos 16 sq mm PVC insulated FRLS copper conductor for earthing.	Metre	50	1177	58850
4.04	Supplying and fixing suitable Module GI 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 with indicator type, base plate, modular cover plate, connections etc. and all civil works 'complete as required.	Each	10	380	3800

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
4.05	Supplying and fixing suitable modular GI 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 with indicator, base plate, modular cover plate, connections, etc. and all civil works complete as required.	Each	25	483	12075
4.06	Supplying and fixing suitable Modular 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 Point)	Each	5	855	4275
4.08	Supply and fixing following 20 Amps, 240 volts, 2P+E, Industrial Socket Outlet (with plugs) in a metal box with 20 SP MCB in a sheet steel cover on surface or recess complete with all accessories including connections, testing and commissioning etc. as required.	Each	5	1247	6235
4.09	Supply and fixing following 32 Amps, 240 volts, 2P+E, Industrial Socket Outlet (with plugs) in a metal box with 20 SP MCB in a sheet steel cover on surface or recess complete with all accessories including connections, testing and commissioning etc. as required.	Each	10	1500	15000
4.10	Supplying, providing & fixing cordless musical bell with batteries etc of approved make complete as required.	Each	2	500	1000
4.11	Supply and fixing following FP MCB, 415 volts, 10 KA (Isc), "C" curve Four Pole with thermal magnetic release having variable current setting (0.8 to 1.0 In) in a sheet steel enclosure on surface complete with all accessories including , connections, testing and commissioning etc. as required.				
i	63 Amp	Each	6	3000	18000
TOTAL SUBHEAD: 4- WIRING AS MENTIONED ABOVE					658275

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	SUB HEAD 5: LIGHT FIXTURE AND FANS				
5.00	LIGHT FIXTURES AND FANS				
5.01	Supply of following light fixture with high efficiency electronic ballast, starter, tubes/lamps, capacitor, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories as required.				
	i 2XTL-5 28 watt box type fluorescent light fixture with reflector(Philips TMS 122M 2XTL5 28 W EBT or approved equivalent) (136b/136w)	Each	60	2540	152400
	ii 1XTL-5 28 watt box type fluorescent light fixture with reflector(Philips TMS 122M 1XTL5 28 W EBT or approved equivalent) (136b/136w)	Each	44	2000	88000
	iii 2X 28 watt Surface flourscent light fixture (Philips TCS 150 2XTL-28W EBT or approved equivalent). (236 SMO1)	Each	20	3420	68400
	iv 1X36 watt surface mounted type fluorescent light fixture with opal acrylic diffuser (Philips TCS019 1XTL-D36W EBT or approved equivalent) (136AC1)	Each	4	2100	8400
	v 2X28 watt surface mounted type fluorescent light fixture water proof luminaries (Philips TCW450 2XTL5-28W EBT or approved equivalent)	Each	2	4110	8220
5.02	Supply of following compact fluorescent 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 AC GR or approved equivalent) BH	Each	10	1150	11500
	ii 2X18 watt Mirror top with frosted glass (Decon 05CA or approved equivalent) (w toilet)	Each	2	1820	3640

S.No.		Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	iii	Surface mounted Batten holder (Plastic) with 13 watt CFL	Each	5	200	1000
	iv	2 X 18 watt surface mounted down light frosted glass (DECON:PL-2X18 W 03NBS 01 or approved equivalent) (DL0)	Each	6	2135	12810
5.03		Supply of following ceiling fans (Crompton Greaves High Speed Plus (BEE -5Star Rated) Air delivery equal or higher then 210 Cmm or approved equivalent) complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type electronic fan regulator, suitable for operation on 230 volts, 50 Hz., 1 phase, AC supply complete as required.				
	i	1200 mm sweep	Each	2	2600	5200
5.04		Supply of 900 RPM, 300 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	2670	5340
5.05		Supply of 400 mm sweep, Crompton greaves model high flow 16" 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	1	2350	2350
5.06		Installation, testing and commissioning of prewired, fluorescent 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	130	91	11830
5.07		Installation, testing and commissioning of prewired, compact fluorescent lamp fixture (CFL fixtures)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	23	91	2093

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
5.08	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	2	338	676
5.09	Installation, testing and commissioning of exhaust fan up to 400 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	270	540
5.10	Installation, testing and commissioning of wall mounted fan up to 400 mm sweep including supply and fixing wall bracket arrangement complete as required.	Each	1	150	150
0.00					
	TOTAL SUBHEAD 5: LIGHT FIXTURE & FANS AS MENTIONED ABOVE				382549

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	SUB HEAD 6: TELEPHONE SYSTEM				
6.00	TELEPHONE SYSTEM				
6.01	Supplying drawing, connecting and testing of 0.5mm dia annealed copper conductor PVC insulated PVC sheathed telephone Wire/cables in Existing M.S/ PVC conduit or a racks as required.				
i	2 pair Telephone cable. (0.5 mm)	Meter	100	17	1700
6.02	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
i	20 mm	Metre	50	131	6550
ii	25 mm	Metre	25	152	3800
6.03	Supply, fixing, connecting and testing of telephone modular sockets modular plate anodised MS box and blanking plate in surface / recessed including connectionetc as required.				
i	Telephone socket outlet (RJ-11 telephone Jack Single with Shutter)	Each	5	179	895
6.04	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.				
iii	10 Pair	Each	1	500	500

S.No.		Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
6.05		Supplying and drawing of following pairs 0.5mm dia annealed bare copper conductor Polythene insulated, core twisted into pairs armoured telephone cable on surface/tray with saddels including termination of cables at both sides in Krone Tag Block etc. complete as required.				
	iii	10 Pair	Metre	20	113	2260
		Supply of Analog phones Without display having following features ; Pulse or tune Dailing 3 repertory Keys, 10 Speed Dailing Number, Last Number redial , Manual Pause, Adjustable volume etc (Before procurement of this item, the contractor shall have necessary approval approval of quantity from HSCC/Client.)	Each	2	1200	2400
		TOTAL SUBHEAD 6: TELEPHONE SYSTEM AS MENTIONED ABOVE				18105

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	SUB HEAD 7: LT CABLES				
7.00	LT CABLES				
7.01	Supply of following sizes of 1.1 kV grade multicore aluminium conductor PVC sheathed armoured XLPE cable as per IS 7098.				
	i 3.5 Core 240 Sqmm.	Metre	150	1210	181500
	ii 3.5 Core 25 Sq mm	Metre	100	195	19500
	iii 4 Core 10 Sq mm	Metre	100	140	14000
	iv 4 Core 6 Sq mm	Meter	50	108	5400
	v 3 Core 10 Sqmm.	Meter	50	117	5850
	vi 3 Core 6 Sqmm.	Meter	50	99	4950
	vii 3 Core 4 Sqmm.	Meter	50	89	4450
	viii 2 Core 10 Sq mm	Metre	400	103	41200
7.02	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				
	i Up to 35 sq.mm	Metre	560	181	101360
	iv Above 185 Sq mm and up to 400 Sq mm	Metre	105	215	22575
7.03	Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade direct in the existing RCC/ Hume/Stoneware/Metal pipe as required				
	i Up to 35 sq.mm	Metre	120	15	1800
	iv Above 185 Sq mm and up to 400 Sq mm	Metre	23	53	1192.5
7.04	Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade on surface or on existing cable tray complete as required.				
	i Up to 35 sq.mm	Metre	120	19	2280
	iv Above 185 Sq mm and up to 400 Sq mm	Metre	23	84	1890

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
7.05	Supplying and making end termination with suitable size Copper lugs including double compression glands of following sizes of 1.1. kv grade multicore aluminium conductor PVC insulated and PVC sheathed				
i	3.5 Core 240 Sqmm.	Each	6	474	2844
ii	3.5 Core 25 Sq mm	Each	8	100	800
iii	4 Core 10 Sq mm	Each	4	125	500
iv	4 Core 6 Sq mm	Each	2	72	144
v	3 Core 10 Sqmm.	Each	4	50	200
vi	3 Core 6 Sqmm.	Each	2	60	120
vii	3 Core 4 Sqmm.	Each	4	40	160
viii	2 Core 10 Sq mm	Each	12	40	480
	TOTAL SUBHEAD 7: LT CABLES AS MENTIONED ABOVE				413195.5

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	SUBHEAD 8: EARTHING, SAFETY EQUIPMENTS AND MISC. ITEMS				
8.00	EARTHING, SAFETY EQUIPMENTS AND MISC. ITEMS				
8.01	Earthing with copper plate 600mmX600mmX3mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc., including charcoal or coke and salt complete as required.	Set	2	11000	22000
8.02	Earthing with GI plate 600mmX600mmX6mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc., including charcoal or coke and salt complete as required.	Set	6	6000	36000
8.03	Supplying and laying 25mmX5mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	30	97	2910
8.04	Providing and fixing 25mmX5mm GI strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	70	120	8400
8.05	Supplying and laying 50mmX6mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	30	243	7275
8.06	Providing and fixing 50mmX6mm GI strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	50	300	15000
8.07	Providing and fixing 25mmX5mm Copper strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	70	766	53620

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
8.08	Supplying and laying 25mmX5mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	30	680	20400
8.09	Supplying and laying 50mmX6mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required.	Metre	30	1500	45000
8.10	Providing and fixing 50mmX6mm Copper strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required.	Metre	50	1450	72500
8.11	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	30	1019	30570
8.12	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	50	391	19550
8.13	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	100	34	3400
8.14	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
i)	300 mm dia	Metre	50	529	26450

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
8.15	Cable Route Marker				
	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	4	310	1240
8.16	Providing & Fixing of Safety Equipmet				
	i) Providing and fixing M.V. danger notice plate of 200mmX150mm made of mild steel, atleast 2mm thick and vitreous enammelled white on both sides and with inscription in signal red colour on front side as required.	Each	2	68	136
	ii) Supply & erection of the following Safetyand testing Equipment including miscellanoes items like Clamps, nuts & Bolts , rawl plugs etc at suitable places as required.				
	a) Supplying and laying of 1.1kV grade 1 metre wide anti skid chequered type rubber mat.	Metre	5	1800	9000
	b) G.I buckets of 4 nos of 5 Litres Capacity duly painted white inside and red oxide paint out side and witten 'FIRE' with white paint & Filled with Dry sand and mounted on M.S angel iron bracket of Size 50x50x6mm thick and 1200mm long including grounting in walll /floor etc as required .	Set	1	1810	1810
	c) Supply and fixing shock treatment chart in English, Hindi and local language mounted on 5mm thick Plywood and 3mm thick plain glass front complete as required.	Set	1	687	687
	d) Supplying and fixing Foam type 9 ltrs capacity fire extinguishers as approved by ISI complete as required.	Set	2	4800	9600
	e) Supplying and fixing Dry Chemical powder type 5 Kg capacity fire extinguishers as approved by ISI complete as required.	Set	2	4200	8400

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
f)	Supplying and fixing CO2 type 4.5 Kg capacity fire extinguishers as approved by ISI complete as required.	Set	12	5310	63720
g)	Supplying, storing, handling and fixing in position First Aid Medical Box complete as per technical specifications as required.	Each	1	3500	3500
8.17	Providing & fixing rigid PVC pipe complete with fittings, clamps including trenching & refilling/ wall cutting & plastering, etc. (for cable entry) with all minor civil & mech. Works complete as required.				
i	50 mm dia nominal bore	Metre	20	200	4000
ii	150 mm dia nominal bore	Metre	30	300	9000
8.18	Fabrication and Installing following size of preforted M.S Cable tray including Horizontal and vertical bends, reducers, tee, crossmember and other accessories as required and duly Suspended from the ceiling with M.S 12mm rod suspenders and including painting etc. as required.				
i)	150mmwidth x 50mm depth x1.6mm thickness	Metre	125	880	110000
ii)	300mmwidth x 50mm depth x1.6 mm thickness	Metre	10	1329	13290
iii)	450mmwidth x 62.5mm depth x2.0mm thickness	Metre	5	2042	10210
	TOTAL SUBHEAD 8: EARTHING AS MENTIONED ABOVE				474168

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
	SUBHEAD 9: OUT DOOR LIGHTING				
9.00	OUT DOOR LIGHTING				
9.01	Supply, erection, testing and commissioning of external swaged steel tubular pole with following specifications & items :				
i	9.0 Mtrs. high swaged steel tubular pole with arm length around 1.5 Metre, the construction of the pole shall be as per IS:2713 - 1980 410 SP-30 with base plate 450mmX450mmX6mm complete as per requirement with two coats of spray paints of approved shade.				
ii	1X150 watts street light fixture with 150watts high pressure sodium vapour (HPSV) lamp complete with control gear, acrylic cover cover etc. similar to Philips SRP 051/ 150 W or approved equivalent including its wiring with 2X4 sq.mm. PVC insulated, FRLS copper conductor and 1.5 sqmm PVC insulated, FRLS copper earth wire from control box complete as required.				
iii	Suitable size 32 A DP MS Control box with 2 no. incoming and outgoing terminals and 2 nos. tap-out terminal with 6A DP MCB complete as required - 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 foundation including excavation, shuttering, alignment of poles, casting etc. including lean concrete at the bottom as per CPWD/ BIS specifications.				
vi	The above installations shall be completed as CPWD specifications and as required				
a.	Steet Tubular Poles(9M) Single Arm as mention above	Set	6	17900	107400
b.	Steet Tubular Poles (9M) same as above but for Double Arm as mention above	Set	2	25800	51600

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
9.02	Supply, installation, testing and commissioning of external post top lantern with following accessories and complete as required :				
i	4m high (3.3m above ground) 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 4 meter pole with external post top lantern as mentioned above	Set	8	6700	53600
9.03	Supply, installation, testing and commissioning of Post top lantern with 70W SON 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 - 1 set	Set	2	4700	9400
9.04	Supply, installation, testing and commissioning of bollard lamps 1X18 watts CFL (Philips HCS360 1XPL-C/2P 18W GR Sonara bollard in gree color or equivalent) control box - 1 set.	Each	6	4000	24000
					0

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
9.09	Road Lighting Panel				
	Supply, installation, testing and commissioning of following outdoor type with canopy, IP-54 protected M.V. cubicle type totally enclosed, free standing type, dust, damp and vermin proof, MV Panel, busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, stove enamelled painted and having following incoming and outgoing switchgears complete as required.				
1	INCOMER:				
	63 Amps,415 volts, TP+NL, 35 KA Moulded Case Circuit Breaker with thermal magnetic release having variable current settings .				
	R,Y&B phase indicating lamp (LED type) with 2A control SP MCB ,ON, OFF , TRIP for MCCB				
	Extended rotary operating mechanism with door interlocking with defeat feature and padlock facility. MCCB should have spreader links & phase barriers.				
	1 Set of timer switch & 100A TP contactor with neutral link (for street lights control) .				
	BUSBARS:				
	300 Amp TPN Aluminium busbars				
	OUTGOING:				
i	30 Nos. 16 Amp 415 volts, DP MCB				
	Feeder Pillar as mention above	Set	1	36000	36000

S.No.	Description	Unit	Total Qty	Rate in Figures (in Rs.)	Amount (in Rs.)
9.10	Spiral earthing made out of 6 SWG GI wire , 50mm Dia, 115 turns closely wound ,1.5 mtr below ground, earth pit of 350 Dia., 1.5 mtr depth including providing charcoal and salt for earthing at alternate layers of 300 mm depth (total 3 layers),connections etc. complete as required.	Set	12	300	3600
	TOTAL SUBHEAD 9: OUTDOOR LIGHTING AS MENTIONED ABOVE				285600
	GRAND TOTAL FOR ALL ELECTRICAL WORKS				3740548.5
End of Electrical BOQ					

<u>DISTRICT DRUG WARE HOUSE. AT CHATTISGARH</u>		
<u>SUMMARY SHEET FOR HVAC WORKS</u>		
SECTION	DESCRIPTION OF WORKS	AMOUNT (Rs.)
	Total for HVAC Works at "District Drug Ware House" Chattisgarh	2195469

BOQ OF HVAC WORKS AT "DISTRICT DRUG WARE HOUSE, AT CHHATTISGARH"					
BOQ ITEM NO.	DESCRIPTION OF ITEM	TOTAL Quantity	UNIT	RATE IN FIGURES (in RS)	AMOUNT (Rs.)
1	2	3	4	5	6
The prices are to be quoted in the below mentioned form and shall include the supply, installation, testing & commissioning at site of all the equipments, ancillary materials as specified and all such items what so ever which may be required to fulfill the intent and purpose as laid down in the specifications and or the drawings.					
The tenderer shall quote rates in figures and in words under column 5&6 and extend amount to column 7					
<u>Sub Head -A, Equipments</u>					
1.0	Supply , installation , testing and commisioning of air cooled Ductable split type unit with scroll compressors suitable for 3 Phase 50 Hz AC supply comprising of the following.				
	a) Outdoor condensing Units				
	b) Indoor Evaporative Units with fine filters.				
	c) Interconnecting Refrigerant and drain piping with insulation wherever required, refrigerant and oil. The unit shall include refrigerant piping, power cabling,fresh air intake arrangement and drain piping as required.				
	d) Safety and operational controls				
	e) The unit shall have advanced microcomputer controller with run time equalization, auto restart after power failure, fuzzy logic, self fault diagnostics. The controller shall have LED display, LED indicators and touch key pad. The controller shall have faults and alarm dispay and it shall be mounted in fire retardant box.				
1.1	Capacity : 8.5 TR	4	Nos.	185736	742944
2.0	SPLIT AIR CONDITIONERS				
	Supply , installation , testing and commisioning of voltas/ Bluestar/equivalent make HI wall split air conditioner comprising of the following.				
	a) Outdoor condensing Units				
	b) Indoor Evaporative Units with cordless remote.				
	c)Interconnecting Refrigerant and drain piping with insulation wherever required, refrigerant and oil. The unit shall include refrigerant piping, power cabling and drain piping.				

BOQ ITEM NO.	DESCRIPTION OF ITEM	TOTAL Quantity	UNIT	RATE IN FIGURES (in RS)	AMOUNT (Rs.)
	c) 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.				
2.1	Capacity : 2.0 TR	5	Nos.	53292	266460
2.2	Extra for Supply & installation of Copper piping with fittings complete with nitrile Rubber Insulation for connecting Indoor & Outdoor Units.	30	Rm	1220	36600
2.3	Extra for Supply & Installation of drain water PVC Pipe from Indoor Unit to Outside Drain Point.	30	Rm	203	6090
3.0	Window Air Conditioner				
	Supply , installation , testing and commisioning of voltas/Bluestar/equivalent make Window Acs complete with electrical cabling as required along with mounting arrangement and Voltage stablizer. The units should have 3 star rating from BEE.				
3.1	Capacity : 1.5 TR	1	Nos	36961	36961
3.2	Capacity : 2.0 TR	1	Nos	38879	38879
	<u>Sub Head -B, Air Distribution</u>				
4.0	GSS DUCTING				
	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				

BOQ ITEM NO.	DESCRIPTION OF ITEM	TOTAL Quantity	UNIT	RATE IN FIGURES (in RS)	AMOUNT (Rs.)
4.1	1.25mm (18 G) GSS	10	Sqm	1257	12570
4.2	1.0 mm (20 G) GSS	20	Sqm	1004	20080
4.3	0.80 mm (22 G) GSS	170	Sqm	890	151300
4.4	0.63 mm (24 G) GSS	200	Sqm	725	145000
5.0	VOLUME CONTROL DAMPERS				
	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	2	Sqm	5413	10826
6.0	GRILLES WITH DAMPERS				
	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.	8	Sqm.	7107	56856
7.0	DUCT INSULATION				
	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation on existing duct after applying two coats of cold setting adhesive (CPRX compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.				
7.1	19 mm	360	Sqm.	816	293760
8.0	DUCT LINING				

BOQ ITEM NO.	DESCRIPTION OF ITEM	TOTAL Quantity	UNIT	RATE IN FIGURES (in RS)	AMOUNT (Rs.)
	Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m ³ , with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.	35	Sqm.	543	19005
9.0	UNDER DECK INSULATION FOR ROOF				
	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS:8183,density 48kg/m ³ , 50 mm thick ,wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 guage wire mesh , for top most ceiling of building .	730	sqm	490.60	358138
	TOTAL FOR HVAC WORKS				2195469