



**BHARAT HEAVY ELECTRICALS LIMITED  
CENTRALISED STAMPING UNIT  
Jagdishpur**

**Tender for Construction of Administration Building and  
other Buildings including architectural works at  
Jagdishpur**


**Tender Enquiry No: BHE/CSU/CVL/01**


**SECTION – IV**


**BILL OF QUANTITIES & PRICE SCHEDULE**


**BHARAT HEAVY ELECTRICALS LIMITED  
(A GOVERNMENT OF INDIA UNDERTAKING)  
CENTRALISED STAMPING UNIT  
Industrial Area  
Jagdishpur (UP) 227817**


Centralised Stamping Unit, Jagdishpur						
BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)						
SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
1	EARTH WORK IN EXCAVATION, BACKFILLING AND DISPOSAL AS PER SPECIFICATION, DRAWINGS AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-					
1.1	Layout of building including making of reference pillars etc. complete.	Sq.M.	263			
1.2	Earth work in excavation in foundation trenches in ordinary soil including all lead and lift and disposal of surplus earth as directed.	Cu.M.	250			
1.3	Anti-termite treatment by injecting chemical emulsion and creating a chemical barrier under foundations and floors, junction of wall and floor, along the external perimeter of expansion joints, as per IS 6313 (part-II 1981) at the rate as specified.	Sq.M.	271			
1.4	Filling of Earth in foundation trenches etc. with ordinary soil with 1.5m lift and 50m lead including dressing, and ramming.	Cu.M.	160			
1.5	Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including supply of all material, labour and T&P required for proper completion of work. completion of work	Cu.M.	32			
1.6	Cinder filling in sunken area of baths/ toilets as per direction of engineer in charge including cost of materials labour T & P etc. required for proper completion of the work.	Cu.M.	10			


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2	PROVIDING AND PLACING CONCRETE WORK INCLUDING COST OF LABOUR, MATERIALS AND EQUIPMENT FOR HANDLING, TRANSPORTATION, BATCHING, MIXING, PLACING, VIBRATING AND CURING, (EXCLUDING COST OF CENTERING, SHUTTERING AND REINFORCEMENT) COMPLETE AT ALL ELEVATIONS AS PER DRAWING, SPECIFICATIONS UNLESS SPECIFIED OTHERWISE AND AS DIRECTED BY ENGINEER AND INCLUDING COST OF MIX DESIGN FOR THE FOLLOWING:					
2.1	Providing and laying cement concrete in 1:4:8, cement, coarse sand and graded hard stone aggregate of 40mm nominal size under foundation, floors & Grade Beams and curing complete excluding cost of form work but including cost of all materials and T&P required for proper completion of work.	Cu.M.	61			
2.2	R.C.C.[M20] works as per mix design in <b>Footings &amp; Column pedestal</b> with cement, coarse sand (F.M.-2.2) and graded hard stone aggregate of 20mm nominal size in the proportion to produce M-20 concrete excluding cost of reinforcement and shuttering but including cost of all materials and T&P required for proper completion of work.	Cu.M.	40			
2.3	R.C.C.[M20] works as per mix design in <b>Column</b> with cement, coarse sand (F.M.-2.2) and graded hard stone aggregate of 20mm nominal size in the proportion to produce M-20 concrete excluding cost of reinforcement and shuttering but including cost of all materials and T&P required for proper completion of work.	Cu.M.	20			


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2.4	R.C.C.[M20] works as per mix design in <b>Beams</b> with cement, coarse sand (F.M.-2.2) and graded hard stone aggregate of 20mm nominal size in the proportion to produce M-20 concrete excluding cost of reinforcement and shuttering but including cost of all materials and T&P required for proper completion of work.	<b>Cu.M.</b>	50			
2.5	R.C.C.[M20] works as per mix design in <b>Lintels, Sun-shades Fins</b> etc with cement, coarse sand (F.M.-2.2) and graded hard stone aggregate of 20mm nominal size in the proportion to produce M-20 concrete excluding cost of reinforcement and shuttering but including cost of all materials and T&P required for proper completion of work.	<b>Cu.M.</b>	4			
2.6	R.C.C. [M20] works as per mix design in <b>Slabs</b> with cement, coarse sand (F.M.-2.2) and graded hard stone aggregate of 20mm nominal size in the proportion to produce M-20 concrete excluding cost of reinforcement and shuttering but including cost of all materials and T&P required for proper completion of work.	<b>Cu.M.</b>	55			
2.7	Breaking existing concrete work including dismantling or demolishing at any level including <b>cutting reinforcements</b> , removing the rubbish within a lead of 2Km.inside or outside plant area as directed , including making good the broken edges/surface with cement mortar, painting, finishing to match with existing finishing, scaffolding/supporting at any level, all complete and as directed by Engineer.	<b>Cu.M.</b>	135			
2.8	Dismantling and Demolishing all types of brick work including stacking of serviceable material and disposal of unserviceable material within 1 Km lead from the dismantled structure.	<b>Cu.M.</b>	150			


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3.0	<b>SUPPLYING, FIXING AND REMOVING FORMWORK AT ANY ELEVATION INCLUDING ALL LABOUR, MATERIAL, SCAFFOLDING COMPLETE INCLUDING POCKETS ETC. AND INCLUDING PROPPING, SCAFFOLDINGS ,SHUTTERING OIL ETC AS PER SPECIFICATIONS AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:</b>					
3.1	<b>Ordinary form work below finished ground floor level</b> for foundations, footings, bases of columns, walls, columns pilasters, beams, mass concrete, trenches etc.	Sq.M.	40			
3.2	<b>Fairface form work above finished ground floor level with plyboard or equivalent shuttering</b> for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches etc for all heights.	Sq.M.	1,050			
3.3	<b>Extra over item no.3.1 &amp; 3.2 for curved form work</b> for beams, walls, trenches etc as per specification.	Sq.M.	10			
4	<b>REINFORCEMENTS</b>					
4.1	<b>Providing, straightening, cutting, bending, placing in position at any level, binding in position of mild steel reinforcements</b> confirming to <b>grade-1</b> of IS:432 (part-I) including cost of binding wire, labour, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer. Authorised lapps shall be measured .	MT	1			
4.2	<b>Providing, straightening, cutting, bending, placing in position at any level, binding in position of tor steel reinforcements</b> confirming of <b>grade Fe-415</b> confirming to IS:1786 including cost of binding wire, labour, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer. Authorised lapping shall be measured	MT	17			

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5	<b>WATER PROOFING AS PER SPECIFICATIONS , DRAWINGS AND SPECIALISED MANUFACTURER'S RECOMMENDATIONS.</b>					
5.1	<b>Providing and mixing approved water proofing compound in concrete or cement mortar</b> for works wherever specified or directed as per specification/ manufacturer's instructions, testing of samples for water proofing etc complete.( 8Kg/cum is the average consumption considered)	<b>kg</b>	480			
5.2	Supplying and laying one layer of <b>TAR felt</b> or any other equivalent approved material at the junction of wall and roof as per direction, including necessary overlap, giving coat of approved mastic paint below the Tar felt and including supply of all material, labour and T&P required for proper completion of work.	<b>Sq. M.</b>	55			


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5.3	Providing and laying <b>Brick Koba Water Proofing</b> treatment with 10 years of performance guarentee to vertical and horizontal surfaces of depressed portions of WC, Kitchen, Roof Terracing etc., consisting of -	<b>Sq. M.</b>	240			
	1st course of applying cement slurry @4.4kg/sqm. Mixed with water proofing compound 'Impermo' of Snowcem or equivalent conforming to IS 2645 in recommended proportions.					
	2nd course of laying Cement Concrete using broken bricks/ brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement: 5 Course sand) admixed with properitory water proofing compound conforming to IS 2645 over 20mm thick layer of cement mortar of mix 1:5 (1 cement: 5 course sand) admixed with properitory water proofing compound confirming to IS: 2645 to required slope and treating simillarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.					
	After two days of proper curing applying a second coat of cement slurry admixed with properitory water proofing compound confirming to IS: 2645					
	3nd course of finishing the surface with 20mm thick jointless cement mortar plaster of mix 1:3 (1cement : 3 coarse sand) admixed with properitory water proofing compound mixed as per manufacturers specification and finally finishing the surface with trowel with neat cement slurry and making of 300x300mm square.					
	The whole terrace so finished shall be flodded with water for a minimum period of two weeks for curing and for final leak test and after the surface is dried up then apply					
	4th course of blown or residual bitumen applied hot at 1.7kg per sqm on area.					


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	5th course of 400micron thick PVC sheet. (Overlaps at joints of PVC sheet shall not be less than 100mm wide and pasted to each other with hot blownbitumen @ 1.7kg/sqm)					
	The average thickness of above treatment shall be 120mm and minimum thickness at khurras as 65 mm and the work shall be carried out under strict supervision of approved specialised agency for proprietary items and as directed by engineer.					
5.4	Providing and laying <b>protective wearing course of average thickness 25 mm thick PCC (1:2:4)</b> with 6 mm down aggregate laid in 1200 square mm panels alternatively cast reinforced with 0.56 mm dia galvanised chicken wire mesh with a gap of 6 mm between two adjacent panels gaps shall be filled with silicon sealant for expansion and contraction all complete with labour, material, equipment and as per specification/drawing and to the satisfaction of engineer .	<b>Sq.M.</b>	200			
5.5	Making Khurras 45x45 Cm with average minimum thickness of 5 Cm cemernt concrete 1:2:4 ( 1 cement:2 course sand: 4 graded stone aggregate of 20 mm nominal size) over PVC sheet 1m x 1m x 400 micrones, finished with 12 mm cement plaster 1:3 (1 cement: 3 corse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete.	<b>Each</b>	15			


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5.6	Screed concrete 1:2:4 conforming to IS 456 with coarse sand and graded hard stone aggregate 12.5mm/6 mm nominal size <b>on the roof</b> at any level or thickness to maintain the required grade complete.	Cu.M.	20			
5.7	Applying 3 coats of bitumen of approved make on foundations before backfilling including supply of material,workmen and tools and plants required for application and as directed and approved by engineer.	Sq.M.	350			
6	<b>SUPPLYING &amp; INSTALLATION OF PREMOULDED JOINT FILLER OF APPROVED MAKE IN BETWEEN EQUIPMENT FOUNDATIONS, MAT FOUNDATIONS, PILE CAPS, WALLS, BASEMENT SLABS ETC. COMPLETE INCLUDING LABOUR, EQUIPMENT AND MATERIALS, SEALING OF JOINTS INCLUDING COST OF SEALING COMPOUND (POLYSULFIDE BASE SEALANT AS PER IS:12118) ETC. COMPLETE AS PER SPECIFICATIONS AND DRAWINGS OR AS DIRECTED BY ENGINEER FOR THE FOLLOWING:</b>					
6.1	12mm thick joints.	Sq.M.	10			
6.2	20mm thick joints.	Sq.M.	10			
6.3	25mm thick joints.	Sq.M.	8			
7	<b>M.S. EMBEDMENTS</b>					
7.1	Supply, fabricating and fixing of <b>embedments, MS inserts</b> , pipe sleeves, guide rails, angle pieces, rungs of various diameters, plates of dimensions as required including cost of all labour, materials and equipment, transportation, loading, unloading, handling, welding,cutting, drilling, scaffolding and setting complete as per specifications, drawings and as directed by Engineer.	kg	200			


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8	<b>GROUTING AS PER SPECIFICATION FOR THE FOLLOWING:-</b>					
8.1	Providing and <b>grouting of pocket holes</b> , pipe sleeves of any shape and size under base plates after erection of necessary structural steel work, machinery with <b>mix 1:1:2</b> (one part Cement : 1part Sand : 2 parts of 6mm down graded stone chips) at any elevation including roughening surface, cleaning, ramming, curing etccomplete (non-shrink hand grout using approved admixture) as per specification and as directed by the Engineer.	<b>Cu.M.</b>	2			
9	<b>DOORS, WINDOWS, VENTILATORS, LOUVERS, ROOF VENTILATORS, ROLLING SHUTTERS, PARTITIONS ETC. COMPLETE INCLUDING FRAMING, KICK PLATES, STOPPERS AS PER SPECIFICATION, DRAWINGS AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-</b>					
9.1	Providing and fixing <b>40mm thick solid core flush door shutters (single or double)</b> with commercial faces and hard board edges. Core of solid core doors shall be of block board or wood particle board of approved make including all fixtures, Godrej make Mortice lock with 3 no keys and 2No master keys for each building with handle on both sides, shop painting/polishing as per specification all complete including test certificates.Flush door shutters to be of decorative type phenol formaldehyde , water and termite proof ISI marked , core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters including ISI marked Stainless Steel butt hinges with necessary screws, including cost of all materials and T&P required for proper completion of work.	<b>Sq.M.</b>	12			


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9.2	Providing and fixing anodized extruded aluminium windows and ventilators (single or double shutter) powder coated with approved colour including aluminium frame conforming to IS:1948, IS:1949 fabricated from extruded sections of HINDALCO or approved equivalent having minimum 2 mm wall thickness as per IS:1285, IS:733 and electro color coating of minimum 15 microns thickness. <b>Glazing shall be 6 mm thickness tempered heat reflecting glass of green/ blue colour of approved make e.g SaintGobain, Modifloat Etc</b> including including EPDM lining,silicon sealants, snapon beading handles, tower bolts, friction hinges, stays ,snap fit type beading, concealed screws, fixtures with handle on both sides etc complete. Aluminium section shall be smooth, free of stains, straight, mitred & jointed mechanically wherever required.	Sq.M.	170			


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9.3	Providing and fixing anodized extruded aluminium doors (single or double shutter) part pannelled and part glazed with prelaminated flat pressed particle board (NOVAPAN, ECOBOARD etc) of approved colour and make. Aluminium sections shall be powder coated with approved colour with aluminium frame conforming to IS:1948, IS:1949 fabricated from extruded sections of HINDALCO or approved equivalent make having minimum 3mm wall thickness as per IS:1285, IS:733 and electro color coating of minimum 15 microns thickness. Glazing shall be clear float glass of 6.0mm thickness of approved make e.g SaintGobain, Modifloat Etc including snap fit type beading, concealed screws, fixtures, Godrej make Mortice lock Godrej make Mortice lock with 3 no keys for each door and 2 master keys for each building with handle on both sides etc complete. Aluminium section shall be smooth, free of stains,rust free, straight, mitred & jointed mechanically wherever required. Prelaminated board shall be 12mm thickness with all fixtures. Rates to include cost of floor springs of approved make.	Sq.M.	24			
9.4	Providing and fixing aluminium glazed partition part pannelled and part glazed with prelaminated flat pressed particle board (NOVAPAN, ECOBOARD etc)boards of approved colour and make.Aluminium sections shall be powder coated with approved colour and of extruded sections of HINDALCO or approved equivalent make having minimum 3mm wall thickness as per IS:1285, IS:733 and electro color coating/ powder coated of minimum 15 microns thickness. Glazing shall be clear float glass of 6.0mm thickness of approved make e.g SaintGobain, Modifloat Etc including snap fit type beading, concealed screws, hold fast, fixtures (like tower bolts, handles, door stoppers with rubber shoes, "L" drops, stays, floor springs, hydrolic door closers etc),C.P. brass/ stainless steel screws, providing and fixing hinges/pivots, and making provisions for fixing of fittings where ever required including the cost of PVC/neoprene gas fits all complete, Godrej make Mortice lock with 3 no keys for each door and 2 master keys for each building with handle on both sides, necessary fillingup of gaps at the junctions , at top, bottom and sides, etc complete.Rates to include cost of floorsprings of approved make. Aluminium section shall be smooth, rust free, straight, mitred & jointed mechanically wherever required.	SQM	20			
9.5	Providing and fixing of over <b>head hydraulic door closers</b> of `Yale" make or approved equivalent & quality as directed by Engineer.	NOS	3			


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9.6	Supply and fixing ceiling fan Hook Box made of 18 gauge M.S. sheet and 16mmØ rod	Nos	23			
10	<b>BRICKWORK MASONRY INCLUDING SUPPLY OF MATERIAL, COST OF LABOUR, SCAFFOLDING ETC. COMPLETE AS PER SPECIFICATIONS, DRAWING AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-</b>					
10.1	Providing <b>brick work of thickness between 230mm and 254mm</b> of class 150 in 1:4 cement and fine sand (F.M. 1.25) mortar in <b>foundation &amp; plinth</b> , including supply of all materials, labour and T&P required for proper completion of work as directed by engineer but excluding plastering and painting, using bricks of class designation 75 or best locally available quality of nominal dimensions as per specification including supply of all material, labour and T & P required for proper completion of work.	Cu.M.	60			
10.2	Providing <b>brick work of thickness between 230mm and 254mm in class 150 in cement mortar 1:4</b> (1cement : 4 coarse sand) in walls, chambers etc. at all heights, places and position <b>above plinth</b> including raking out joints, curing, scaffolding, complete but excluding plastering and painting, using bricks of class designation 75 or best locally available quality of nominal dimensions as per specification including supply of all material, labour and T & P required for proper completion of work	Cu.M.	220			
10.3	Providing <b>brick work of thickness between 115mm and 127mm</b> in cement mortar 1:3 (1 cement : 3 coarse sand) <b>in partition walls, chambers etc.</b> at all heights, places and position above or below plinth/graded level including providing 2 nos. 6mm dia. MS bars at every third layer, raking out joints, curing, scaffolding etc. all complete using bricks of class designation 75 or best locally available quality of nominal dimensions excluding plastering and painting as per specification. Cost of providing reinforcement shall be measured seperately under item 4.1	Sq.M.	42			


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10.4	Making <b>openings</b> in existing finished <b>brick wall or partition wall</b> including making good the broken edges/surface with cement mortar, fixing concrete section as lintel (concrete section to be paid seperately ), painting, finishing to match with existing finishing, scaffolding/ staging works, gas cutting of reinforcement/structural work, cleaning and removing of all debris within 1Km lead etc. all complete and as directed by Engineer.	<b>Sq.M.</b>	30			


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11	DAMP PROOF COURSE INCLUDING ALL MATERIALS, LABOUR, SHUTTERING, CENTERING, CURING ETC., COMPLETE WITH THICKNESS AS SPECIFIED/SHOWN ON DRAWINGS OR AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-	Sq.M.				
11.1	Damp Proof Course 25mm thick 1:1.5:3 concrete (10mm and down graded aggregate) with 2% of approved admixture of water proofing compound. Two layers of hot bitumen coating 85/25 grade as per IS:702 @ 1.7Kg./sqm shall be applied before & after the DPC as per specification.	Sq.M.	10			
12	CEMENT MORTAR PLASTER INCLUDING MAKING GROOVES WHEREVER REQUIRED, ALL MATERIALS, SCAFFOLDING, CURING ETC. COMPLETE AS PER SPECIFICATION, DRAWING AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-					
12.1	10mm thick plastering in 1:4 cement and fine sand (FM 1.25) mortar over brick work and RCC work including rounding, chamfering, etc. finished smooth including cost of all material labour and T&P required for proper completion of work.	Sq.M.	880			


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12.2	15mm thick plastering in 1:4 cement and fine sand (FM 1.25) mortar over wall or half brick wall and RCC including rounding, chamfer, etc. finished smooth including cost of all material labour and T&P required for proper completion of work.	Sq.M.	2,480			
12.3	10mm thick plastering in 1:3 cement and coarse sand (FM 2.2) mortar in ceiling including rounding, chamfer, etc. finished smooth including cost of all material labour and T&P required for proper completion of work.	Sq.M.	370			
12.4	Providing <b>15mm thick neat plaster in drains/culverts</b> as per specification.	Sq.M.	58			
12.5	Providing and making <b>decorative plaster</b> of all types and design on walls, ceilings, arcs, columns with various thickness upto 18 mm including finishing all complete.	Sq.M.	25			
12.6	Providing <b>Plaster of Paris</b> 2 mm thick punning over finished plaster surface and finished with smooth surface as per specification.	Sq.M.	80			


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13	FINISHES, PAINTING TO CONCRETE, PLASTERED SURFACES, SURFACE PREPARATION INCLUDING ALL MATERIALS, LABOUR, SCAFFOLDING ETC. ALL COMPLETE AS PER SPECIFICATION, DRAWING AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-					
13.1	Two or more coats of <b>white washing with lime</b> to give an even shade on ceiling including a priming coat complete.	Sq.M.	440			
13.2	Two or more coats of <b>colour wash</b> as per IS 627 of approved brand and manufacture to give an even shade on walls including a priming coat as per specifications.	Sq.M.	500			
13.3	Two or more coats of <b>water proofing cement paint</b> of approved brand and manufacture & of required shade to give an even shade on walls complete.	Sq.M.	1,550			
13.4	Two or more coats of <b>distempering with oil bound washable distemper</b> as per IS:428 of approved brand and manufacture to give an even shade including a priming coat with distemper primer complete over P.O.P.	Sq.M.	200			
13.5	Painting walls with two coats of Plastic Emulsion paint of approved brand and manufacturer of required shade over new surface including one priming coat of water proof oil bound approved primer and finished with BIRALA or equivalent Putty after thoroughly brushing the surface to give an even shade including cost of all material, labour and T&P required for proper completion of work.	Sq.M.	660			

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				In Figure, Rs	In Words, Rs	
13.6	Painting walls with two coats of Acrylic Smooth exterior paint "Trump/Apex paint" or equivalent of required shade over new work (two or more coats applied @3.28ltr/10sqm) over and including base coat of water proofing cement paint "Snowcem Plus" or equivalent applied @2.20kg/10sq. including curing, cost of all material, labour and T&P required for proper completion of work.	Sq.M.	880			
13.7	Painting two coats with high gloss super synthetic enamel paint such as Luxol3, or equivalent approved brand or manufacturer over one coat of red oxide paint on steel and other metal surfaces after cleaning and brushing the surface free of dirt, dust, rust etc. to give an even shade including cost of all material, labour and T&P required for proper completion of work.	Sq.M.	750			
14	<b>FLOORING AND SKIRTING INCLUDING BASE LAYER AND ALL MATERIALS, LABOUR, CURING, POLISHING ETC. COMPLETE IN ALL RESPECTS AS SHOWN ON DRAWINGS, DESCRIBED IN SPECIFICATIONS AND AS DIRECTED BY ENGINEER FOR THE FOLLOWING:-</b>					
14.1	Providing and laying <b>polished Kota stone</b> 25 mm thk in <b>flooring</b> Under bed shall have average 30mm thk of 1 part cement,2 part sand : 4 parts stonechip by volume and brought to proper level. The kota stone slabs/tiles laid over under bed, pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry spread over the surface with fine joint finished including pigments, curing, grinding, granite polishing etc. complete.	Sq.M.	10			
14.2	25mm thick Kota stone slab in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete including cost of all materials and T&P required for proper completion of work	Sq.M.	10			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
<b>BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)</b>						
SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
14.3	Providing and laying <b>polished Granite stone</b> of approved dark color and texture <b>20 mm thk</b> in flooring. Under bed shall average 30mm thk of 1 part cement,2 part sand : 4 parts stonechip by volume and brought to proper level. The granite stone slabs/tiles laid over under bed, pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry spread over the surface with fine joint finished including pigments, curing, grinding, granite polishing etc. complete .	Sq.M.	2			
14.4	Providing and laying <b>polished Granite stone 20 thk of approved dark colour in skirting and dado</b> including pigments, curing, grinding, granite polishing etc. complete.	Sq.M.	3			
14.5	Providing and laying <b>7 mm thk vitrified ceramic tiles of polished variety</b> of size 300x300 from reputed manufacturer, complete as per specification over 15mm (average) thick base of 1:3 cement and coarse sand (F.M. 2.2) mortar laid over and jointed with white cement slurry mixed with pigment to match the shade of the slab including cost of 120mm thick base concrete 1:4:8 cement, fine sand and 40mm nominal gauge brick ballast (made of class 150 or over burnt bricks) including supply of all material, labour and T&P required for proper completion of work. completion of work.	Sq.M.	200			
14.6	Providing and laying <b>7 mm thk vitrified ceramic tiles of polished variety</b> of size 300x300 from reputed manufacturer, <b>for skirting and dado</b> up to specified height complete as per specification over 15mm (average) thick base of 1:3 cement and coarse sand (F.M. 2.2) mortar laid over and jointed with white cement slurry mixed with pigment to match the shade of the slab including cost of 120mm thick base concrete 1:4:8 cement, fine sand and 40mm nominal gauge brick ballast (made of class 150 or over burnt bricks) including supply of all material, labour and T&P required for proper completion of work.	Sq.M.	30			
14.7	Providing and laying <b>granite stone slab</b> of 20mm thickness single piece for wash basin slab of black or approved colour with cutting and opening complete.	Sq.M.	8			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
<b>BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)</b>						
SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
14.8	Providing and laying <b>Heavy Duty dust pressed Ceramic Tiles</b> of size 300x300 (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 13755 of NITCO, ORIENT, SOMAY, KAJARIA, SPARTECH or equivalent make in colours such as white, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:3 (1cement : 3 coarse sand) including pointing the joints with white cement and matching pigment etc., complete including cost of all materials and T&P required for proper completion of work thick of reputed manufacturer of approved finish shade and colour.	Sq.M.	20			
14.9	Providing and fixing <b>White glazed tiles of size 150x150mm, 5.5mm to 6mm thk in dado</b> , of 1st quality conforming to IS code of NITCO, ORIENT, SOMAY ,KAJARIA, SPARTECH or equivalent make projecting 6mm uniformly from adjacent plaster or wall finish. The mix for underbed plaster shall consist of 1part cement and 3 parts coarse sand by weight. fairly moist but firm, tiles shall be pressed over under bed by applying cement slurry, including pigments, curing etc all complete.	Sq.M.	35			
14.10	Providing and laying <b>Heavy Duty Ceramic Tiles (Matt Finish) of size 300x300mm and of 1st quality conforming to IS : 13753 of minimum thickness 5mm of approved make like NITCO, ORIENT, SOMANY KAJARIA, SPARTECH or equivalent approved make in all colours, shades except "Burgundy", Bottle Green and Black, of any size as approved by Engineer-in-charge in skirting, risers of steps and dado laid over 12mm thick bed of cement mortar 1:3 (1cement : 3 coarse sand) and jointing with grey cement slurry @3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete including supply of all material, labour and T&amp;P required for proper completion of work.</b> The tiles shall be scratch resistance of minimum 5 on Mohr's scale and shall have a bending strength of 350 Kg./sqm, complete as per specification. including all material, labour, etc all complete and as directed by engineer	Sq.M.	10			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
<b>BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)</b>						
SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
14.11	Providing , laying and fixing with approved adhesive agent <b>2mm thick antistatic PVC floor</b> of approved shade including all labour, material etc all complete as per drawing and as directed by Engineer.	Sq.M.	30			
14.12	<b>Providing and laying screed concrete 1:1.5:3</b> by volume laid in slope (with 6 to 10mm nominal size stone chips) including all labour, materials, scaffolding etc. complete for all lifts, all leads and of 50mm average thickness.	Sq.M.	20			
14.13	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by engineer-in-charge) over 20mm (average) thick base of cement mortar 1:3 (1cement : 3 coarse sand) laid and jointed with white cement slurry including rubbing, grinding and polishing complete with Raj Nagar Plain/Baroda Green including supply of all material, labour and T&P required for proper completion of work.	Sq.M.	35			
14.14	Same as in item 14.18 but in skirting and dado	Sq.M.	5			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
<b>BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)</b>						
SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
15	PROVIDING AND FIXING RAIN WATER DOWN TAKE PIPES INCLUDING ALL SPECIALS AND ACCESSORIES ETC. COMPLETE AS PER SPECIFICATION.					
15.1	Supplying and fixing of 110mm dia. PPR Down Pipes of approved colour fixed properly to wall or column with M.S. stays and clamps along with bend/head and shoe required for proper completion of work including supply of all bends, clamps, Tees and specials and as directed by enginner..	<b>RM</b>	90			


Centralised Stamping Unit, Jagdishpur						
BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)						
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				In Figure, Rs	In Words, Rs	
16	<b>MISCELLANEOUS ITEMS</b>					
16.1	Providing and fixing in position 25mm wide and <b>25mm thick blown bitumen in expansion joints</b> as per specification.	RM	50			
16.2	<b>Clearing the area</b> including chemical treatment antiweeding from approved specialised manufacturer/ agency with 5 years performance guarentee for antiweeding treatment , uprooting of trunks, vegetation, grass bushes etc. including removing of rubbish and its disposal upto 2 km inside or outside plant area as directed and dressing and levelling the ground at existing grade and work to be executed as approved by engineer. rates to include cost of all supplied materials, labours and T & Ps for successful execution of the item	Sq.M.	13,600			
16.3	Providing and fixing <b>bitumen impregnated fibre joint filling board of 25 mm thickness</b> , fillers along with PVC water bar etc for expansion joint in water retaining structures all complete as per specifications, drawing and as directed by Engineer.	RM	50			
16.4	Design, supply, fabrication, installation of truly levelled and aligned <b>400mm high cavity flooring</b> comprising of 35mm thick <b>Nova teak</b> or approved equivalent make superparticle board of size <b>610mm x 610mm floor panels</b> having 2mm thick anti-static PVC sheet on top, 2mm thick hard PVC strip lipping on edges and 26 G aluminium sheet fixed with araldite on underside including cutting of panels where required for cables etc with supporting system comprising of 25mm dia galvanised MS threaded rod and pressure die cast zinc aluminium alloy adjustable head attachment at top and welded to 100x100x8mm base plate, pedestal fixed to floor by means of expension fasteners to existing floor at a distance of 610mm center to center bothways etc all complete as per specification and as directed by Engineer.	Sq.M.	30			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
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				In Figure, Rs	In Words, Rs	
16.5	Providing and fixing <b>suspended false ceiling</b> with mineral fibre acoustic tiles of 600x600x 15mm size of prima adria fine fissured type of Armstron or approved equivalent make over GI concealed system frame work with primary grid of 13x38x13mm support channel and maximum 1200mm centre securely fixed to RCC slabs/ beams as per manufacturer's specifications including providing thermal insulation with resin bonded fibre glass wool confirming to IS: 8183 , density 32 Kg/Cu.M, Type SE- self extinguishing type , 50mm thick wrapped in 200G Black Vergin Polythene bags placed over existing false ceiling and held in position by criss crossing GI wire.	Sq.M.	22			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
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				In Figure, Rs	In Words, Rs	
16.6	Providing and fixing suspended false ceiling straight/ inclined/ vertical/ flat surfaces as per designs and drawings fixed to RCC/ steel supports and comprising of GI framework suspenders as above but with covering of 9mm thick commercial ply pasted with facing of 4mm thick decorative ply ( like Beech, white ash, white cedar, Maple , Padauk, mahogny etc ) , stained and polished as required.	Sq.M.	10			
16.7	Providing and fixing on GI frame work as in item a16.5 above with 9 mm thick commercial ply with facing of 4 mm thick Golden mirror anf teak wood beading complete including polishing of beading as directed and approved by engineer.	Sq.M.	5			
16.8	Providing and fixing at all levels aluminium composite panel cladding on brick/ concrete surfaces comprising of 4mm thick thermoplastic core of midlow density polythelene sandwiched between two skins of aluminium of 0.5mm thickness of each skin of approved colour including approved aluminum back up perimeter extrusions, MS channels, stainless steel fasteners, sealants between panels and all other miscellaneous accessories complete as per manufacturer's specifications and drawings.	Sq.M.	5			
16.9	Providing and fixing semi unitised structurally glazed wall wherein the structural glazing is curved horizontally using mullion transoms and interlocking subframes profiles. The glass panels are curved horizontally using 6.4 mm thick norton tapes and structural silicon of 995 grade of DOW CORNING duly weathered sealed using 789 DOW CRONING . The system should withstand applicable wind pressure as relevant at Jagdishpur as per IS codes with specifically designed MS/ galvanised/ powder coated brackets and fischers/ hilti fasteners complete with 6 mm thick approved heat tampered reflecting glass	Sq.M.	5			
16.10	Providing and laying 50 mm thick interlocking machine made clay brick paver flooring over 150 mm thick bed of lean concrete 1:5:10 ( 1 cement: 5 coarse sand: 10 graded stone aggregate)	Sq.M.	10			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
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				In Figure, Rs	In Words, Rs	
16.11	Providing and fixing buffed/ polished and lacquered <b>stainless steel railing</b> as per drawing made of vertical balusters of 37.5mm dia. heavy gauge pipe with 37.5mmx 37.5 mmx 6 mm "U" shaped lacquered stainless steel section/ brackets to hold the railing including providing 12 mm thick glass with EPDM lining including lacquered stainless steel bolts etc fitted to bellustrude. Hand rail to be 50mm medium gauge lacquered stainless steel pipe balustrude fitted with 6 mm thick stainless steel flats and stainless steel shoes as approved by engineer and securely fixed to RCC work.	Sq.M.	10			
16.12	Providing services of skilled computer operator at BHEL office with computer proficiency , knowledge of latest software packages for office and skills in dealing with the office environment .(one manmonth is calculated on the basis of normal working hours as per minimum wages act)	Man month	15			
16.13	Providing services of unskilled manpower at BHEL office with skills in dealing with the office environment .(one manmonth is calculated on the basis of normal working hours as per minimum wages act)	Man month	35			
16.14	Providing services of semiskilled manpower at BHEL office e.g Plumber, Electrician, Carpenter etc with skills in dealing with the office environment as well as possessing proficiency of their assigned work and having skills to execute assigned work with good workmanship .(one manmonth is calculated on the basis of normal working hours as per minimum wages act)	Man month	15			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
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SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
17	<b>M.S.GATES.</b>					
17.1	Supply, fabrication ,erection of <b>M.S gates</b> incuding painting with approved primer and coats of colour and also including excavation,concreting, as per specifications complete.Excavation, Concrete ,reinforcement and backfilling quantities as per drawing for erecting gate shall be measured in relevant items of this BOQ .	<b>MT</b>	2			
18	<b>SANITARY</b>					
	<b>SUPPLY AND FIXING SANITARY ITEMS AS PER ITEM DESCRIPTION INCLUDING ALL ACESSORIES, SPECIALS, BENDS ETC. AND INCLUDING ALL MATERIAL, LABOUR, T&amp;Ps ACCORDING TO MANUFACTURER'S SPECIFICATION , DRAWINGS AND AS APPROVED AND DIRECTED BY ENGINEER</b>					
18.1	Providing & fixing White Vitreous China water closet <b>Squatting Pan Orissa Pattern W.C<sub>2</sub> Pan</b> ( PARRYWARE, HINDUSTAN or approved equivalent make)of size 580x440 with integral type Foot Rest, Flush Pipe & Over flow arrangement with 100 mm sand cast Dron- P or S Traps 10 ltr. Low level P.V.C. flushing Cistern ( of approved make) with fittings, CI/MS brackets 32mm dia. Flush Pile with fittings and clamps.	<b>Each</b>	5			
18.2	Providing & fixing White Vitreous China water closet <b>European type W.C<sub>2</sub> Pan</b> Ist quality ( PARRYWARE, HINDUSTAN or approved equivalent make) with White solid plastic seat and lid with Flush Pipe & Over flow arrangement with 100 mm sand cast Dron P or S Traps 10 ltr. Low level P.V.C. flushing Cistern ( of approved make) with fittings, CI/MS brackets 32mm dia. Flush Pile with fittings and clamps.	<b>Each</b>	2			


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				In Figure, Rs	In Words, Rs	
18.3	Providing & fixing White Vitreous China Flat back or wall corner type, lipped front Urinal Basin ( PARRYWARE, HINDUSTAN or approved equivalent make)of size 460x26x350 size with 5ltrs white PVC two way automatic flushing cistern with standard flush pipe and C.P. brass spreaders with fitting and CS/MS brackets Urinal shall have electronically operated automatic flushing system to ensure flushing when in use including all plumbing, electronic, electrical items and control valves	Each	5			
18.4	Providing & fixing White Vitreous China <b>Squatting Plate</b> ( PARRYWARE, HINDUSTAN or approved equivalent make)with an integral longitudinal flushing pipe, white PVC automatic flushing cistern, Perryware/Hindware /Seabrid/Orient (coral) with fitting standard size G.I. flush pipe for back and front flush with standard	Each	4			
18.5	White Vitreous China <b>Wash Basin</b> ( PARRYWARE, HINDUSTAN or approved equivalent make) of size 630x450 with CS/MS brackets, 15mm C.P. brass Waste of standard pattern, including painting of fittings and brackets, with <b>pair of 15m C.P. Brass Pillar Cock.</b>	Each	2			
18.6	White Vitreous China <b>Wash Basin</b> ( PARRYWARE, HINDUSTAN or approved equivalent make) of size 630x450 with CS/MS brackets, 15mm C.P. brass Waste of standard pattern, including painting of fittings and brackets, with <b>single 15m C.P. Brass Pillar Cock.</b>	Each	3			
18.7	Providing & fixing Stainless Steel <b>Kitchen Sink</b> as per IS:13983 of size 610x510 bowlx1780mm depth without drain board, with CS/MS brackets, stainless steel pug 40mm 15mm C.P. brass Waste of standard pattern, including painting of fittings and brackets, etc.	Each	1			
18.8	Providing & fixing PVC Flexible waste Pipe, of 40mm dia. for sink or wash basin coupling etc. complete	Each	13			
18.9	Providing & fixing <b>Stainless Steel Jali (Grating)</b> with or without hole for waste pipe for N. Trap. Weight not less than 70 grms.	Each	17			


 <b>Centralised Stamping Unit, Jagdishpur</b>						
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				In Figure, Rs	In Words, Rs	
18.10	Providing & fixing <b>Mirror</b> of superior size with bevelled edge with 6mm thick had board back fixed to wall with wooden cleats and C.P. brass screws & washers complete.	<b>Each</b>	3			

 <b>Centralised Stamping Unit, Jagdishpur</b> <b>BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)</b>						
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				In Figure, Rs	In Words, Rs	
18.11	Providing & fixing <b>Mirror</b> of superior quality of <b>Rectangular shape 1500x450mm</b> with plastic moulded frame of approved make and shade with 6mm thick had board back complete.	Each	2			
18.12	Providing & fixing C.P. brass <b>Toilet paper holder</b> of complete.	Each	4			
18.13	Providing & fixing C.P. Brass <b>Towel rail</b> with C.P. Brass brackets fixed to wooden cleats with C.P. brass screws.	Each	6			
18.14	Providing & fixing PPR, <b>Water or Vent pipe 110 mm</b> internal dia.	RM	30			
18.15	Providing & fixing PPR, <b>Water or vent pipe 75 mm</b> internal dia.	Each	61			
18.16	Providing & fixing <b>100x100x100mm dia. PPR Tee with access door</b> , insertion rubber washers 3mm thick, bolts and nuts complete	Each	2			
18.17	Providing & fixing <b>100x100x75mm dia. PPR Tee with access door</b> , insertion rubber washers 3mm thick, bolts and nuts complete	Each	2			
18.18	Providing & fixing <b>75x75x75mm dia. PPR Tee with access door</b> , insertion rubber washers 3mm thick, bolts and nuts complete	Each	2			
18.19	Providing & fixing 100mm dia. <b>PPR Bend of required degree with access door</b> , insertion rubber washers 3mm thick, bolts and nuts complete	Each	1			
18.20	Providing & fixing 75mm dia. <b>PPR Bend of required degree with access door</b> , insertion rubber washers 3mm thick, bolts and nuts complete	Each	1			
18.21	Providing & fixing 100mm dia. <b>PPR Plain Bend</b> of required degree without access door.	Each	2			
18.22	Providing & fixing 75mm dia. <b>PPR Plain Bend</b> of required degree, without access door	Each	2			

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				In Figure, Rs	In Words, Rs	
18.23	Providing & fixing 100mm dia. Inlet & 75mm dia outlet, Sand cast Iron <b>Nahani Trap</b> of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm complete.	Each	13			
18.24	Providing & fixing <b>Cutting chases</b> in brick masonry or R.C.C. for 100/75mm dia sand cast iron pipes and making good the same with cement concrete 1:3:6 cement, coarse sand and 12.5mm nominal size grit and plastering the surface with 1:4 mortar..	Each	11			
19.00	<b>WATER SUPPLY</b>					
	<b>SUPPLY AND FIXING WATER SUPPLY AS PER ITEM DESCRIPTION INCLUDING ALL ACCESSORIES, SPECIALS, BENDS ETC. AND INCLUDING ALL MATERIAL, LABOUR, T&amp;Ps ACCORDING TO MANUFACTURER'S SPECIFICATION , DRAWINGS AND AS APPROVED AND DIRECTED BY ENGINEER</b>					
19.1	Providing & fixing <b>Concealed G.I. pipe fitting of 15mm dia.</b> Nominal bore including G.I. fittings as required including painting with anti-corrosive bitumenastic paint and making good the chase.	RM	122			
19.2	Providing & fixing <b>Concealed G.I. pipe fitting of 20mm dia.</b> Nominal bore including G.I. fittings as required painting with anti-corrosive bitumenastic paint and making good the chase.	RM	36			
19.3	Providing and fixing <b>Open G.I. pipe fitting of 20mm dia.</b> Nominal bore including G.I. fittings as required including trenching and refilling including trenching and refilling	RM	85			
19.4	Providing & fixing <b>Open G.I. pipe fitting of 32mm dia.</b> Nominal bore including G.I. fittings as required including trenching and refilling	RM	107			
19.5	Providing & fixing <b>Open G.I. pipe fitting of 40mm dia.</b> Nominal bore including G.I. fittings as required including trenching and refilling	RM	35			

 <b>Centralised Stamping Unit, Jagdishpur</b>						
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				In Figure, Rs	In Words, Rs	
19.6	Making connection of G.I. distribution branch with G.I./PVC mains of size 50 to 80mm nominal bore including clamps etc. complete.	Each	2			
19.7	Providing and fixing 32mm dia. bore gun metal Gate Valve with C.I. wheel of approved quality.	Each	6			
19.8	Providing and fixing 40mm dia. bore gun metal Gate Valve with C.I. wheel of approved quality.	Each	1			
19.9	Providing and fixing 20mm dia. Nominal bore Brass Ball Valve	Each	6			
19.10	Providing and fixing 15mm dia. Nominal bore Plasticized P.V.C. connection pipe with brass union 45 cms. Length.	Each	41			
19.11	Providing and fixing 150mm dia. C.P. Brass Shower Rose with 15mm dia inlet.	Each	2			
19.12	Providing and fixing 15mm dia. Nominal bore C.P. Brass long body Bib Cock of approved quality confirming to IS:8931 weighing not less than 690 gms.	Each	11			
19.13	Providing and fixing 15mm dia. Nominal bore C.P. Brass Stop Cock (concealed) of approved quality confirming to IS:8931.	Each	4			
19.14	Providing and fixing 15mm dia. Nominal bore C.P. Brass Angle Valve of approved quality confirming to IS:8931	Each	11			
19.15	Providing and fixing 15mm dia. Nominal bore C.P. Brass close hole Basin Mixer Pillar Cock of approved quality weighing not less than 1970 kg. confirming to IS:8931	Each	2			
19.16	Providing and placing on terrace 1000ltrs. Capacity high density polyethylene water storage tank of approved brand and manufacturer e.g Sintex or equivalent with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes and the base support for tanks and including float ball valve of standard quality.	Each	5			

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				In Figure, Rs	In Words, Rs	
19.17	Providing and placing on terrace <b>500ltrs. Capacity high density polyethelene water storage tank of approved brand and manufacturer e.g Sintex</b> or equivalent with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes and the base support for tanks and including float ball valve of standard quality.	<b>Each</b>	1			
19.18	Supply and fixing <b>100mm internal dia S.W. Pipe</b> over a concrete bed laid in 1:4:8 Cement, fine sand (F.M. 1.25) and 40mm gauge stone aggregate including jointing of pipes with Jute and 1:1 cement and fine sand.	<b>RM</b>	35			
19.19	Supply and fixing <b>150mm internal dia S.W. Pipe</b> over a concrete bed laid in 1:4:8 Cement, fine sand (F.M. 1.25) and 40mm gauge stone aggregate including jointing of pipes with Jute and cement complete.	<b>RM</b>	8			
19.20	Supply and fixing 150x100mm size <b>square mouth S.W. Gully Trap P</b> type, with C.I. grating, brick masonry chamber, and water tight C.I. cover frame 300x300mm size inside The wt. of cover & frame to be not less than 7.2 kg.	<b>Each</b>	6			
19.21	Constructing brick masonry <b>Man holes</b> in 1:4 cement mortar of inside size 900x800 and 450mm, with circular C.I. cover & frame( Heavy Duty) of size 560 internal diameter along with inside plaster 15mm thick with 1:3 cement mortar along with providing galvanised rungs as per drawing with a floating coat of neat cement and making channels in cement conc. 1:2:4 mix and finishing smooth including curing and testing	<b>Each</b>	3			

 <b>Centralised Stamping Unit, Jagdishpur</b>						
<b>BILL OF QUANTITIES AND PRICE SCHEDULE (Administrative Building and other Works)</b>						
SL NO.	DESCRIPTION OF ITEMS FOR CIVIL & ARCHITECTURAL WORKS OF ADMIN. BLDG., SECURITY BLDG. OTHER WORKS ,	UNIT	QTY	RATE		AMOUNT
				In Figure, Rs	In Words, Rs	
19.22	Constructing brick masonry <b>Man holes</b> in 1:4 cement mortar of inside size <b>1200x900 and 900mm deep</b> with C.I. cover & frame (Heavy Duty) of size 560 internal diameter. Total wt. of cover and frame to be not less than 208 kg. and inside plaster 15mm thick with 1:3 cement mortar with a floating coat of neat cement along with providing galvanised rungs as per drawing and making channels in cement conc. 1:2:4 mix and finishing smooth including curing and testing	<b>Each</b>	1			
19.23	Providing & fixing "POLYPROPYLENE RANDOM TYPE 3" pipe for <b>Main Water supply 110 mm</b> internal dia. including embedding the pipes 450mm below ground level, laid over soft sand bed including all bends, Tees , specials, clamps etc. including complete supply as per manufacturer's specifications including cost of all material, labour and T & P required for proper completion of work.	<b>RM</b>	20			
					<b>GRAND TOTAL =</b>	