

BHEL-PS-WR
PRICE BID,PART-II, VOL-II
(RATE SCHEDULE)
TS : BHE/PW/PUR/BINA-ENB/476

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CONSTRUCTION OF SITE OFFICE(40X10M)-1NO AT BORL 3X33MW, BINA - SECTION-A						
Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
1	A) EARTH WORK EXCAVATION UPTO 0 TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR FOUNDATION COLUMNS, SEPTIC TANK, SOAK PIT, RAMPS ETC., SPREADING THE EARTH UNIFORMLY AROUND THE SPECIFIED AREA FOR SITE DEVELOPMENT AND DISPOSING THE SURPLUS EARTH (IF ANY) AT THE AREA EARMARKED INSIDE OF PROJECT BOUNDARY WITHIN 3 TO 5 KM AS DIRECTED BY BHEL ENGINEER .	180	M3			
2	BACK FILLING IN FOUNDATION AND PLINTH WITH SELECTED EXCAVATED SOILS IN LAYERS NOT EXCEEDING 15 CM THICKNESS INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	70	M3			
3	PROVIDING & FILLING IN SOAK PIT WITH BRICK BATS 40-80MM INCLUDING PACKING ETC. COMPLETE,AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	4	M3			
4	PROVIDING RANDOM RUBBLE MASONARY WITH HARD STONE IN FOUNDATION AND UPTO PLINTH WITH CEMENT MORTOR 1:6 INCLUDING COST OF MATERIAL , CEMENT AND POINTING WORKS WITH CEMENT MORTOR OF 1:4 FOR THE SITE EXPOSED PORTION OF MASONARY FOR PLINTHS	24	M3			
5	SUPPLYING AND FILLING WITH GOOD RIVER SAND(100 MM THK) IN LAYERS, WATERING AND CONSOLIDATING ALL COMPLYING WITH STANDARD SPECIFICATION FOR FILLING THE FOUNDATION AND BELOW FLOOR AND BASEMENT. RATE INCLUDES COST OF MATERIAL, LABOUR, TRANSPORT, INCIDENTAL CHARGES ETC., COMPLETE.	8	M3			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
6	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING 40MM & DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR FOUNDATION, FLOORING, ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	48	M3			
7	PROVIDING AND LAYING RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS FOR FOUNDATION, PLINTH BEAM, LINTELS, SUN SHADES, COLUMNS, ETC. AT ALL ELEVATIONS AND LEVELS.	12	M3			
8	PROVIDING DPC WITH CC 1:2:4 40MM THICK INCLUDING BITUMEN COATING AS PER STANDARD PRACTICE AND SPECIFICATIONS.(UNDER PLINTH BEAMS)	48	M2			
9	PROVIDING AND FIXING REINFORCEMENT INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER INCLUDING COST OF ALL LEADS, LIFT AND MATERIALS, LABOUR AND MS BINDING WIRE 18/20 GAUGE ETC. COMPLETE.	1.4	MT			
10	PROVIDING BRICK WORK USING LOCALLY AVAILABLE BEST QUALITY BURNT CLAY BRICKS IN CM 1:6 INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING ETC. COMPLETE AS PER DRAWING AND AS DIRECTED BY BHEL ENGINEER AT ALL ELEVATIONS AND LEVELS.	100	M3			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
11	PROVIDING HALF BRICK WORK IN PARTITION WALL USING LOCALLY AVAILABLE BEST QUALITY BURNT CLAY BRICKS AS ABOVE IN CM 1:4 INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING AS PER DRAWING AND AS DIRECTED BY BHEL ENGINEER	36	M2			
12	DESIGN, MANUFACTURE, SUPPLY,FABRICATION AND ERECTION OF STEEL STRUCTURAL COLUMNS, BRACINGS (FOR O.H. WATER TANK STAGING, GATEPOST) AND TUBULAR/STRUCTURAL/COMPOSITE TRUSSES, PURLINS SPACED GENERALLY @ 1.4 M CENTRE TO CENTRE TO SUPPORT ROOFING WITH AC SHEETS AND WIND TIES TO BE PROVIDED ABOVE SHEETS AND PROVIDING AND FIXING BASE PLATES WITH HOLDING DOWN BOLTS ON RCC COLUMNS , GUSSETS, RIBS, PINS, SPLICES ETC. AS REQUIRED INCLUDING TRANSPORT, LOADING, UNLOADING CHARGES FROM FABRICATION SHOP TO SITE ETC. COMPLETE. DRAWING ATTACHED WITH TENDER IS INDICATIVE ONLY & DESIGN HAS TO BE OBTAINED FOR TRUSS, COLUMNS ETC. BEFORE FABRICATION, DULY APPROVED BY BHEL. RATE IS INCLUDING ALL STEEL SECTIONS, FIXING IN POSITION, LABOUR CHARGES AND COST OF RED OXIDE PRIMER AT FACTORY AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED COLOUR AND QUALITY AT SITE.					
	(A) STRUCTURAL STEEL WORKS FOR WATER TANKS	1	MT			
	(B) TUBULAR/COMPOSITE TRUSSES (AVG. RATE FOR TUBULER, STRUCTURAL OR COMBINED SECTION AS THE CASE MAY BE)	6	MT			
13	PROVIDING AND FIXING 6/7MM THICK AC CORRUGATED SHEETS WITH RIDGE CAPS FOR ROOFING INCLUDING GALVANISED IRON J OR L HOOK BOLTS, GI IRON AND BITUMINOUS WASHERS, GI CRAMP BOLTS, NUTS ETC. COMPLETE, ALL AS PER LATEST IS 459, 3307 AND 730.	370	M2			

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				IN FIGURE	IN WORD	
14	PROVIDING AND FIXING FALSE CEILING WITH 4MM THICK AC PLAIN SHEETS OF APPROVED QUALITY AND DESIGN OF SIZE 600x600 MM PANELS WITH SQUARE EDGES SUPPORTED BY ANODISED ALUMINIUM FRAMES OF TEES 35x23.5x1.5 MM THICK AS MAIN MEMBER AND 19x23.5x1.5 MM TEES AS CROSS SUPPORTING MEMBERS AND WALL ANGLES OF 23.5x23.5x1.5MM. THE MAIN RUNNERS SHALL BE SUSPENDED FROM ROOF AT 1200 MM CENTRE TO CENTRE BY MEANS OF MS RODS WITH GI 'J' THREADED HOOK FOR ADJUSTMENTS. THE CROSS RUNNERS SHALL BE FIXED TO MAIN RUNNER TO FORM A GRID PATTERN OF 600x600MM AND PROVIDING 25 MM WIDE ALUMINIUM STRIP TEES OR MOULDED SECTIONS AT ALL JOINTS. THE RATE SHALL BE INCLUSIVE OF THREE COATS OF WHITE WASHING ON AC PLAIN SHEETS ETC. COMPLETE.	600	M2			
15 (A)	MANUFACTURING, SUPPLY AND FIXING OF BEST QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95 X 70MM AND 38/40MM THICK PANEL SHUTTER (SINGLE SHUTTER) OF SOLID CORE TYPE USING COMMERCIAL PLY INCLUDING HOLD FASTS, WIND APPLIANCES, HANDLES, TOWER BOLTS AND ALDROPS, MORTISE OR SUITABLE LOCKS ETC. AS PER THE STANDARD PRACTICE AND APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED SHADE OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	18	M2			
15(B)	MANUFACTURING, SUPPLY AND FIXING OF BEST QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95 X 70MM AND 38/40MM THICK PANEL SHUTTERS, (DOUBLE SHUTTER TYPE) INCLUDING HOLD FASTS, WIND APPLIANCES, HANDLES, TOWER BOLTS AND ALDROPS, MORTISE OR SUITABLE LOCKS ETC. AS PER THE STANDARD PRACTICE AND APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED SHADE OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	8	M2			

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				IN FIGURE	IN WORD	
16	MANUFACTURE, SUPPLY AND FIXING IN POSITION OF STEEL WINDOWS AND VENTILATORS INCLUDING FRAMES & IRON BARRED (GUARD BAR OF SQUARE SECTION @ 100 MM C/C) AND GLAZED WITH 4MM PLAIN GLASS AS PER STANDARD SPECIFICATIONS, RELEVANT IS CODE AND INSTRUCTIONS OF BHEL ENGINEER. THE COST SHALL BE INCLUSIVE OF ALL ACCESSORIES FITTINGS, HOLD FASTS, PAINTING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER ETC. COMPLETE.					
	i) STEEL WINDOWS	23	M2			
	ii) STEEL VENTILATORS :-	2	M2			
17	PROVIDING & FIXING STEEL SINGLE OR DOUBLE DOOR SHUTTERS .SHUTTERS SHALL BE 45 MM THICH FLUSH DESIGN COMPRISING 2 OUTER SHHETS OF 18 GAUGE STEEL SHEETS RIGIDLY CONNECTED AND REINFORCED INSIDE WITH CONTINOUS VERTICAL 20 GAUGE STIFFNERS , SPOT WELDED IN POSITION AT NOT MORE THAN 150 MM ON CENTERS SIDE, TOP , BOTTOM EDGES OF SHUTTER SHALL BE OF PRESSED STEEL CHANNELS OF 1.2 MM THICK . INCLUDING ALL FITTINGS LIKE TOWER BOLTS , STOPPERS, ALDROPS , HANDLE ETCAND PAINTING WITH MINIMUM 2 COATS OF SYNTHETIC ENAMEL PAINT ON PRIMER COMPLETE.	14	M2			
18	PROVIDING AND FIXING IPS FLOORING 40MM/25MM THICK WITH CEMENT CONCRETE 1:2:4 AS PER STANDARD PRACTICE IN PANELS OF SIZE NOT EXCEEDING 2.0x2.0 M SQ. BY PROVIDING, FIXING GLASS STRIPS.					
	B) IPS FLOORING 25 MM THICK	240	M2			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
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19	PROVIDING AND PLASTERING WITH CEMENT MORTAR 1:6 OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. OF ALL HEIGHTS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.					
	(i) INTERNAL PLASTER 12MM THICK	400	M2			
	(ii) EXTERNAL PLASTER 18 MM THICK	300	M2			
20	PROVIDING AND MAKING SUNK POINTING IN HORIZONATAL AND VERTICAL GROOVES MADE IN BRICK MASONARY WORK 10 MM WIDE AND 12 MM DEEP IN CM 1:3 WITH AN ADMIXTURE OF 3 5 BY WEIGHT OF CEMENT APPROVED WATER PROOFING COMPOUND COMPLETE IN SUPER STRUCTURE INCLUDING CLEANING OF BRICK SIRFACE , CURING, SCAFFOLDING ALL COMPLETE	70	M2			
21	PROVIDING AND LAYING GLAZED TILES OF SIZE 150X150X6MM FOR WALL DADO ONLY UPTO A HEIGHT OF 1.5M ABOVE , FROM THE GROUND LEVEL AND SKIRTING IN TOILET BLOCK AND PANTRY RESPECTIVELY OVER A BED OF CEMENT MORTAR 1:3, 12MM THICK INCLUDING POINTING WITH NEAT WHITE CEMENT INCLUDING COST OF LABOUR, MATERIALS ETC. COMPLETE.	30	M2			
22	PROVIDING WHITE OR COLOUR WASH THREE COATS ON NEWLY PLASTERED SURFACE USING BEST SHELL LIME TO GIVE AN EVEN SHADE INCLUDING CLEANING AND BRUSHING OF WALLS AND PREPARING SURFACE IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE TO INCLUDE COST OF ALL MATERIALS INCLUDING COLOURING AGENT, APPROVED ADDESSIVE, SCAFFOLDING, BRUSH ETC. COMPLETE.	470	M2			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
23	PAINTING THREE COATS OF CEMENT PAINT (SNOW CEM) ON OUTSIDE SURFACE OF THE OFFICE SHED AND STORE SHED OF APPROVED QUALITY AND SHADE ON NEWLY PLASTERED SURFACE TO GIVE AN EVEN COLOUR INCLUDING CLEANING, PREPARING THE SURFACE AND CURING, SCAFFOLDING ETC. COMPLETE. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR, CONSUMABLES ETC. COMPLETE	300	M2			
24	PAINTING TWO COATS OF OBD ON THE INTERNAL SURFACES OF CM'S ROOM, CONFERENCE HALL, COMPUTER ROOM ETC. IN THE OFFICE SHED AND THE STORE SHED OF APPROVED QUALITY AND SHADE ON NEWLY PLASTERED SURFACE TO GIVE AN EVEN COLOUR INCLUDING CLEANING, PREPARATION OF SURFACE BY APPLYING PUTTY AND A PRIMER COAT. RATE QUOTED SHOULD INCLUDE COST OF ALL MATERIALS, LABOUR, CONSUMABLES, SCAFFOLDING ETC. COMPLETE.	70	M2			
25	PROVIDING AND FIXING HYDRAULIC DOOR CLOSER (HEAVY DUTY) OF APPROVED BRAND AND AS DIRECTED BY BHEL ENGINEER.	6	NO.			
26	SUPPLYING AND FIXING IN POSITION OF WHITE GLAZED VITREOUS CHINA WASH BASIN OF SIZE 550 X 400 MM OF APPROVED MAKE AND QUALITY WITH CI BRACKETS PAINTED WITH TWO COATS OF SYNTHETIC ENAMEL PAINT, SINGLE 15MM CP BRASS PILLAR TAP AND CP BRASS CHAIN WITH RUBBER PLUG, 32MM CP BRASS WASTE COUPLING OF STANDARD PATTERN, 32MM DIA MI OR CP BRASS TRAP AND UNIONS 32MM DIA PVC WASTE PIPE COMPLETE INCLUDING CUTTING AND MAKING GOOD THE WALLS WHEREVER REQUIRED. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR FOR CARRYING, LAYING AND FIXING AND ALL OTHER INCIDENTAL CHARGES ETC. COMPLETE.	3	NO.			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
27	SUPPLYING AT SITE OF WORK, CARRYING, LAYING JOINTING AND FIXING IN POSITION OF INDIAN TYPE WHITE GLAZED VITREOUS CHINA WATER CLOSET PAN OF SIZE 580MM OF APPROVED MAKE AND QUALITY (PARRYWARE OR EQUIVALENT) WITH SUITABLE P OR S TRAP, WHITE GLAZED FOOT RESTS. SEPARATE FLUSHING CISTERN ARE NOT REQUIRED. SUITABLE FLUSHING DEVICE TO BE MADE THROUGH 50 DIA GI PIPING WITH CONTROL VALVES DIRECTLY CONNECTED TO OVERHEAD TANK AS PER THE INSTRUCTION OF BHEL ENGINEER,CUTTING THE WALL AND FLOOR WHEREVER REQUIRED AND MAKING GOOD ALL DAMAGES AND FINISHING TO MATCH THE EXISTING WORK, COST OF JOINTING MATERIALS, ALL OTHER INCIDENTAL CHARGES ETC. COMPLETE.SUPPLYING AND FIXING OF PIPES AND VALVES SHALL BE PAID UNDER THE RESPECTIVE ITEM OF PLUMBING WORK.	2	NO.			
28	SUPPLYING AT SITE OF WORK, CARRYING, LAYING, JOINTING AND FIXING IN POSITION OF EUROPEAN TYPE WHITE GLAZED WATER CLOSET (PARRYWARE OR EQUIVALENT) 400MM HIGH WITH PLASTIC SEAT COVER WITH C P HINGES, RUBBER BUFFERS AND 10 LITRES CAPACITY PVC LOW LEVEL SYPHONIC TYPE FLUSHING CISTERN WITH 1/2" (HALF) PVC CONNECTION OTHER FITTINGS AND BRACKETS, 40MM PVC FLUSH BEND, 20MM OVERFLOW PIPE WITH SPECIALS AND MOSQUITO PROOF COUPLING OF APPROVED DESIGN WITH ALL FITTINGS, PAINTING WITH TWO COATS OF READY MIXED SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY ON BRACKETS AND OTHER FITTINGS, CUTTING OF WALLS AND FLOORS AND MAKING GOOD OF ALL DAMAGES AND FINISHING TO MATCH THE EXISTING WORK. RATE QUOTED SHALL INCLUDE COST OF MATERIALS AND LABOUR FOR CARRYING FIXING AND ALL INCIDENTAL CHARGES ETC. COMPLETE.	1	NO.			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
29	SUPPLYING AT SITE OF WORK, CARRYING, LAYING JOINTING AND FIXING IN POSITION OF WHITE GLAZED EARTHENWARE FLAT BACK/CORNER TYPE LIPPED FRONT URINALS OF 430MM X 260MM X 350MM / 340X460X265 MMOF APPROVED MAKE AND QUALITY WITH AUTOMATIC FLUSHING CISTERN WITH CI/MS BRACKETS, STANDARD SIZE GI FLUSH PIPE AND SPREADERS WITH BRASS UNIONS, GI CLAMPS (INCLUDING PAINTING OF CISTERNS), TEAKWOOD PLUGS AND SCREWS, INCLUDING SUPPLYING AND FIXING A PAIR OF WHITE GLAZED EARTHENWARE FOOT RESTS FOR EACH URINAL, CUTTING OF FLOORS AND WALLS AND MAKING GOOD OF ALL DAMAGES AND FINISHING TO MATCH THE EXISTING WORK ETC. COMPLETE. RATE QUOTED SHALL INCLUDE COST OF ALL MATERIALS AND LABOUR FOR CARRYING, LAYING AND FIXING AND ALL OTHER INCIDENTAL CHARGES ETC. COMPLETE.					
	A) RANGE OF 1 URINAL BASINS WITH 5 LITRES CI AUTOMATIC FLUSHING CISTERN IN COMMON TOILET BLOCKS .	4	NO			
30	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION OF HIGH CLASS BELGIUM OR SUPERIOR MAKE BEVELLED EDGE MIRROR OF SIZE 600MM X 450MM X 6MM MOUNTED ON 6MM THICK PLYWOOD OR PLASTIC FOLDER SHEET. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR FOR FIXING THE WOODEN PLUGS WITH CP BRASS SCREWS AND WASHERS ETC. COMPLETE.	4	NO.			
31	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION,THE FOLLOWING SIZES OF GUN METAL WHEEL VALVES AS PER STANDARD SPECIFICATION (LEADER MAKE OR EQUIVALENT).					
	A) 15 MM NOMINAL SIZE GM WHEEL VALVE	8	NO.			
	B) 20 MM NOMINAL SIZE GM WHEEL VALVE	14	NO.			
	C) 25 MM NOMINAL SIZE GM WHEEL VALVE	10	NO.			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
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32	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION 15MM NOMINAL SIZE SCREW DOWN TYPE CHROMIUM PLATES BRASS BIB COCKS OF APPROVED MAKE AND QUALITY (LEADER MAKE OR EQUIVALENT) AS PER STANDARD SPECIFICATION.	8	NO.			
33	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION OF 15MM NOMINAL SIZE CP BRASS STOP COCK OF APPROVED MAKE AND QUALITY (LEADER OR DRIPLESS MAKE) AS PER STANDARD SPECIFICATIONS. RATE TO INCLUDE COST OF JOINTING MATERIALS, COST OF STOP COCK, LABOUR FOR CARRYING AND FIXING ETC. COMPLETE.	8	NO.			
34	SUPPLYING AT SITE OF WORK AND FIXING 100MM X 50MM HCI "NAHANI" TRAP WITH HCI GRATINGS AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVE .	6	NO.			
35	SUPPLYING AT SITE OF WORK AND FIXING 150MM STONE WARE GULLY TRAP WITH HCI GRATINGS AND CI COVER OF SIZE 300X300 MM OF APPROVED MAKE (WEIGHT 300MM X 300 MM OF APPROVED MAKE (WEIGHT NOT LESS THAN 2 KG) AND QUALITY AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVE.	6	NO.			
36	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION AND JOINTING OF ASBESTOS CEMENT PIPE WITH CEMENT MORTAR 1:2 AND BITUMASTIC COMPOUND OF FOLLOWING DIAMETER WITH SHOE, BEND, MS CLAMPS, BRACKETS, TEAKWOOD PLUGS, GRATINGS, COWL ETC. COMPLETE AS PER STANDARD SPECIFICATIONS. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR CHARGES FOR FIXING AND ALL INCIDENTAL CHARGES ETC. COMPLETE.					
	A) 100MM DIA AC PIPE WITH ALL FITTINGS	20	RM			

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
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37	SUPPLYING AT SITE OF WORK, TRENCHING, CARRYING TO TRENCHES AND LOWERING INTO TRENCHES AND ON WALLS, FLOORS ETC., LAYING TO PROPER ALIGNMENT, GRADE, LEVEL AND JOINTING WITH ALL NECESSARY SPECIALS, TEES, ELBOWS, UNIONS AND APPURTENANCES AND INCLUDING PRESSURE TESTING OF THE FOLLOWING SIZES OF GI PIPE LINES INCLUDING REFILLING OF TRENCHES WITH EXCAVATED EARTH IN LAYERS, WATERING AND RAMMING AND RESTORATION OF GROUND, ALL COMPLETE AS PER SPECIFICATIONS. RATE TO INCLUDE EARTH WORK EXCAVATION IN ALL SOILS, EXCEPT HARD ROCK REQUIRING BLASTING, SHORING, BALLING OR PUMPING OUT OF WATER WHEREVER REQUIRED, REMOVAL OF SLUSH ETC. REMOVING AND DEPOSITING SURPLUS EARTH AS DIRECTED BY THE BHEL ENGINEER INCLUDING ALL LEADS AND LIFTS AS PER SITE CONDITIONS.					
(A)	1" DIA GI PIPE LINE WITH ALL SPECIALS	100	RM			
(B)	3/4" DIA GI PIPE LINE WITH ALL SPECIALS	40	RM			
(C)	1/2" DIA GI PIPE LINE WITH ALL SPECIALS	100	RM			
38	SUPPLYING AT SITE OF WORK, CARRYING AND LOWERING INTO TRENCHES, LAYING TO PROPER ALIGNMENT, LEVEL AND GRADE, JOINTING WITH CM (1:1) AND TESTING OF JOINTS ETC. OF THE FOLLOWING SIZE OF SALT GLAZED STONEWARE PIPE INCLUSIVE OF ALL NECESSARY SPECIALS TARRED HEMP YARN AND ALL JOINTING MATERIALS COMPLETE AS PER STANDARD SPECIFICATIONS INCLUDING ALL LEAD AND LIFT AS PER SITE CONDITIONS. (RATE QUOTED SHALL INCLUDE COST OF ALL MATERIALS, LABOUR CHARGES AND INCIDENTAL CHARGES ETC. COMPLETE).					
	A) 4" (100MM) DIA STONEWARE PIPELINE INCLUDING ALL SPECIALS COMPLETE.	60	RM			

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39	SUPPLY AND FIXING IN POSITION PVC WATER OVERHEAD TANK OF SYNTEX OR ANY APPROVED MAKE OF 2M3 CAPACITY WITH PROVISION FOR OVERFLOW ARRANGEMENT VALVES, INLET AND OUTLET ETC. COMPLETE. SUPPORTING STRUCTURE FOR FIXING THE TANK WILL BE AS PER ITEM RATE GIVEN SEPARATELY.	4	NO.			
40	PROVIDING AND FIXING OF BEST QUALITY CERAMIC TILES OF APPROVED MAKE LIKE SPARTEC (NON SKID TYPE) OR EQUIVALENT OVER THE FLOORS OF CM's CABIN, CONFERENCE HALL, COMPUTER ROOM , AND FLOORS OF ALL THE TOILET BLOCKS. SHADES/COLOURS/SIZES HAS TO BE DECIDED AFTER APPROVAL OF BHEL ENGINEER .RATE QUOTED SHALL BE INCLUSIVE OF BASE PREPARATION/MORTER BEDDING BELOW TILES AND ALL ASSOCIATED WORK LIKE JOINTING, FINISHING WITH WHITE CEMENT, CLEARING ETC. COMPLETE	30	M2			
41	CONSTRUCTION OF BRICK CHAMBER OF THE FOLLOWING DIMENSIONS (INNER DIMENSION) WITH CEMENT PLASTER INSIDE WITH NEAT CEMENT FINISH & TOP WITH CI – COVER FOR CONNECTING THE SEWER LINES. RATE SHALL BE INCLUSIVE OF ALL EXCAVATION, FILLING, PCC, B/K WORK , PLASTER, COVERS ETC. COMPLETE.					
	A) 450X450X450 WITH C.I COVER	4	NO.			
	B) –DO- 600X600X600 WITH C.I. COVER	4	NO.			
42	SUPPLYING & FIXING, MARBLE PARTITIONS IN BETWEEN URINALS (SIZE 1.5MX0.60MX25MM THICK)	4	M2			
43	SUPPLYING & FIXING CADDAPPA STONE IN KITCHEN / PANTRY OTTA OF APPROVED QUALITY (40MM THIK.)	4	M2			

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44	I) PROVIDING AND FIXING ANODISED ALUMINUM (1M LONG) TOWEL RODS OF GOOD QUALITY IN TOILET BLOCKS & PANTRY	4	NO.			
	II) PROVIDING & FIXING LIQUID SOAP DISPENSER AT ALL THE WASH BASIN LOCATION	6	NO.			
45	PROVIDING & FIXING WOODEN FRAME OF BEST COUNTRY WOOD (2.5"x3") FOR INSTALLING PORTABLE 2T AIR CONDITIONER ON THE WALL OPENING (31"x22"), SO AS TO MAKE A FRAME OF INSIDE CLEAR DIMENSION 26"x17" WITH COMPLETE FINISHING PAINTING, HOLD FAST ETC. APPROX. SIZE OF THE FRAME SHALL BE 600X600MM	4	NO.			
46(A)	PROVIDING NEAT CEMENT FINISH OVER THE FRESHLY LAID PLASTER INSIDE THE SEPTIC TANK.	24	M2			
46(B)	PROVIDING & FIXING IN POSITION AC VENT PIPE OF DIA.100MM (HT.2M) IN SEPTIC TANK	4	NO.			
46©	PROVIDING & FIXING 75 THK. RCC PRECAST COVER (600X600) WITH 1:2:4 CONCRETE FOR MAN HOLE CHAMBER OF SEPTIC TANK & OVER THE SOAK PIT INCLUDING ALL MATERIALS, CURING, LIFTING HOOKS, LABOUR ETC. COMPLETE	4	NO.			
	TOTAL OF SECTION-A IN RS					
INTERNAL ELECTRIFICATION OF SITE OFFICE AT BORL 3X33MW, BINA - SECTION B						
SL.NO.	DESCRIPTION OF WORK	QTY.	UNIT	RATE IN FIGURE	RATE IN WORDS	AMOUNT
1	PROVIDING AND INSTALLING METER BOX ALONG WITH ELCB AS REQUIRED ETC. COMPLETE WITH THE FOLLOWING.					
	A) 20 AMPS MCB TWO POLE MDS OR EQUIV. WITH BOX	20	SET			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
	B) 5 AMPS MCB SINGLE POLE MDS OR EQUIV. ALONG WITH BOX	20	SET			
	C) 32 AMPS MCB 2 POLE MDS OR EQUIV. ALONG WITH BOX.	5	SET			
	D) 63 AMPS 3 POLE MCB (MDS OR EQUIV.) ALONG WITH BOX.	2	SET			
2	PROVIDING AND INSTALLING WIRING USING 2.5 MM2 COPPER CONDUCTOR THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE ON SURFACE WITH PVC CONDUIT FOR COMPUTER ROMM, OFFICE SHED & IN ALL AREA OF OFFICE OF REQUIRED SIZE.	50	PER POINT			
3	PROVIDING AND INSTALLING WIRING FOR USING 4.0MM2 COPPER CONDUCTOR THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE ON SURFACE WITH PVC CONDUIT FOR COMPUTER ROMM, OFFICE SHED & IN ALL AREA OF OFFICE OF REQUIRED SIZE.	20	PER POINT			
4	PROVIDING AND INSTALLING WIRING FOR MAINS USING 6.00SQ.MM COPPER CONDUCTOR OF ISI MAKE. USING WIRING THROUGH PVC CONDUIT OF REQUIRED SIZE.	12	PER POINT			
5	PROVIDING AND INSTALLING WIRING FOR MAINS USING 16.00SQ.MMCOPPER CONDUCTOR OR ISI MAKE USING WRING THROUGH PVC CONDUIT OF REQUIRED SIZE.	4	PER POINT			
6	PROVING AND INSTALLATION OF WIRING FOR FANS/COOLERS USING 2.5SQ.MM COPPER CONDUCTOR OF ISI MARK THROUGH PVC CONDUITS WITH ACCESSORIES AND FIXTURES.	40	PER POINT			
7	POVIDING AND INSTALLATION OF PLUG POINT OF 5A/15A SOCKET (ANCHOR OR EQUIV.) OUTLET INCLUDING WIRING TERMINATION.	10	NO			
8	PROVIDING AND FIXING ORDINARY TUBELIGHT WITH FRAME OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL.	60	NO.			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
9	PROVIDING AND FIXING EXHAUST FANS 12" DIAMETER WITH FRAME OF STANDARD MANUFACTURER LIKE CROMPTAN GREEVES OR EQUIVALENT AS APPROVED BY BHEL.	3	NO.			
10	PROVIDING AND FIXING HEAVY DUTY PLUG POINT 15 AMPS(ANCHOR MAKE OR EQUIV.) WITH ONE SWITCH FOR COMPUTER ,ONE FOR AC CONNECTION WITH BORD ETC COMPLETE.	15	NO.			
11	PROVIDING AND FIXING METAL CLAD PLUG AND MCB OF 30AMPS. (CROMPTON/MDS MAKE) FOR AIR CONDITIONER WITH BOARD ETC COMPLETE.	6	NO.			
12	PROVIDING AND FIXING CEILING FAN 48" DIAMETER OF APPROVED COMPANY SUCH AS CROMTAN GREEVES OR ANY OTHER STANDARD MANUFACTURER AS DIRECTED BY BHEL.	30	NO			
13	PROVIDING AND FIXING CALLING BELLS (WITH INDICATOR LIGHT)	6	NO			
14	PROVIDING EARTHING PITS WITH 2 " DIA , 2 M LONG GI PIPES WITH FLANGE & GI WIRES WITH CHARCOAL, SALT AND AS PER THE STANDARD PRACTICE FOR ELECTRICAL CONNECTION.RATE SHALL BE INCLUSIVE OF ALL MATERIALS,LABOURS,ETC COMPLETE.	5	NO			
	TOTAL VALUE OF SECTION-B IN Rs.					

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
CONSTRUCTION OF CLOSED STORAGE SHED (60X15M) AT BORL 3X33MW, BINA - SECTION-C+A225						
SL.NO.	DESCRIPTION OF WORK	QTY	UNIT	RATE		
				IN FIGURE	IN WORDS	
1(A)	A) EARTH WORK EXCAVATION FROM (ZERO) 0 TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR FOUNDATION COLUMNS, SEPTIC TANK, SOAK PIT, RAMPS ETC., SPREADING THE EARTH UNIFORMLY AROUND THE OFFICE /STORE COMPLEX AREA AS WELL AS OPEN STORAGE YARD FOR SITE DEVELOPMENT WITHIN THE PROJECT BOUNDARY AS DIRECTED BY BHEL ENGINEER AND INCLUDING DISPOSAL OF SURPLUS EARTH (IF ANY) INCLUDING DEWATERING WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE	240	M3			
2(A)	BACK FILLING THE FOUNDATION AND PLINTH WITH EXCAVATED SOILS IN LAYERS NOT EXCEEDING 15 CM THICKNESS INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	180	M3			
2(B)	BACK FILLING THE FOUNDATION AND PLINTH WITH MOORUM IN LAYERS NOT EXCEEDING 15 CM THICKNESS INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	100	M3			
3	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING 40MM & DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR FOUNDATION, FLOORING, ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	100	M3			

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
4(A)	PROVIDING AND LAYING RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS FOR FOUNDATION, COLUMNS, BEAMS ETC., AT ALL ELEVATIONS AND LEVELS.	60	M3			
4(B)	PROVIDING AND LAYING RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS FOR FLOORING, RAMP ETC., AT ALL ELEVATIONS AND LEVELS.	150	M3			
4(C)	ORDINARY FORMWORK USING GOOD QUALITY OF STEEL PLATES/ PLYWOOD FOR FOUNDATION,FOOTINGS, BASES OF COLUMNS, WALLS, COLUMNS, .PILASTERS,BEAMS, MASS CONCRETE ,TRENCHES ETC.	500	M2			
4(D)	PROVIDING DPC WITH CC 1:2:4 50MM THICK INCLUDING BITUMEN COATING AS PER STANDARD PRACTICE AND SPECIFICATIONS.	40	M2			
5	PROVIDING AND FIXING REINFORCEMENT INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER INCLUDING COST OF ALL LEADS, LIFT AND MATERIALS, LABOUR ETC COMPLETE	5	MT			
6	PROVIDING RANDOM RUBBLE MASONRY WITH HARD STONE IN FOUNDATION AND UPTO PLINTH WITH CEMENT MORTOR 1:6 INCLUDING COST OF MATERIAL , CEMENT AND POINTING WORKS WITH CEMENT MORTOR OF 1:4 FOR THE SITE EXPOSED PORTION OF MASONRY FOR PLINTHS	175	M3			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
7	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING LOCALLY AVAILABLE BRICKS AS PER DRAWING FOR FOUNDATION, WALL, SEPTIC TANK ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING ETC. COMPLETE AND AS DIRECTED BY ENGINEER .	200	M3			
8	PROVIDING HALF BRICK WORK PARTITION WALL IN CM 1:4 AND PLASTERING IN C.M. 1:6 12mm THK ON BOTH FACES INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING AS PER DRAWING AND AS DIRECTED BY BHEL ENGINEER	135	M2			
9	DESIGN, MANUFACTURE, SUPPLY AND ERECTION OF TUBULAR TRUSSES, PURLINS SPACED GENERALLY @ 1.4 M CENTRE TO CENTRE TO SUPPORT ROOFING WITH AC SHEETS AND WIND TIES TO BE PROVIDED ABOVE SHEETS AND PROVIDING AND FIXING BASE PLATES WITH HOLDING DOWN BOLTS ON RCC COLUMNS , GUSSETS, RIBS, PINS, SPLICES ETC. AS REQUIRED INCLUDING TRANSPORT, LOADING, UNLOADING CHARGES FROM FABRICATION SHOP TO SITE ETC. COMPLETE. DRAWING ATTACHED WITH TENDER IS INDICATIVE ONLY & DESIGN HAS TO BE OBTAINED FOR TRUSS BEFORE FABRICATION, DULY APPROVED BY BHEL. RATE IS INCLUDING ALL STEEL SECTIONS, FIXING IN POSITION, LABOUR CHARGES AND COST OF RED OXIDE PRIMER AT FACTORY AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED COLOUR AND QUALITY AT SITE.	16.2	MT			
10	PROVIDING AND FIXING 6/7MM THICK AC CORRUGATED SHEETS WITH RIDGE CAPS FOR ROOFING INCLUDING GALVANISED IRON J OR L HOOK BOLTS, GI IRON AND BITUMINOUS WASHERS, GI CRAMP BOLTS, NUTS ETC. COMPLETE, ALL AS PER LATEST IS 459, 3307 AND 730.	900	M2			
11	A) PROVIDING AND FIXING TRANSLUCENT RMP/FRP SHEETS 1.5MM THICK OF APPROVED MAKE INCLUDING COST OF GI HOOKS/ J OR L BOLTS, NUTS, WASHERS, BITUMEN WASHERS ETC. COMPLETE SO AS TO MATCH WITH AC CORRUGATED SHEETS.	70	M2			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
12	MANUFACTURING, SUPPLY AND FIXING OF BEST QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95 X 70MM AND 38/40MM THICK FLUSH SHUTTERS OF SOLID CORE TYPE USING COMMERCIAL PLY INCLUDING HOLD FASTS, WIND APPLIANCES, HANDLES, TOWER BOLTS AND ALDROPS, MORTISE OR SUITABLE LOCKS ETC. AS PER THE STANDARD PRACTICE AND APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED SHADE OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	3	M2			
13	MANUFACTURE, SUPPLY AND FIXING IN POSITION OF STEEL WINDOWS AND VENTILATORS INCLUDING FRAMES & IRON BARRED (GUARD BAR OF SQUARE SECTION @ 100 MM C/C) AND GLAZED WITH 4MM PLAIN GLASS AS PER STANDARD SPECIFICATIONS, RELEVANT IS CODE AND INSTRUCTIONS OF BHEL ENGINEER. THE COST SHALL BE INCLUSIVE OF ALL ACCESSORIES FITTINGS, HOLD FASTS, PAINTING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER ETC. COMPLETE.					
14(A)	i) STEEL WINDOWS	7	M2			
12(B)	ii) STEEL LAUVERED VENTILATORS :-	19	M2			
13	PROVIDING AND PLASTERING WITH CEMENT MORTAR 1:6 OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. OF ALL HEIGHTS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC COMPLETE					
13(A)	(i) EXTERNAL PLASTER 18MM THICK	750	M2			
14(B)	(ii) INTERNAL PLASTER 12MM THICK	720	M2			

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
15	PROVIDING AND FIXING IPS FLOORING 40MM/25MM THICK WITH CEMENT CONCRETE 1:2:4 AS PER STANDARD PRACTICE IN PANELS OF SIZE NOT EXCEEDING 2.0x2.0 M SQ. BY PROVIDING, FIXING GLASS STRIPS.					
	B) IPS FLOORING 40 MM THICK	850	M2			
16	PROVIDING WHITE OR COLOUR WASH THREE COATS ON NEWLY PLASTERED SURFACE USING BEST SHELL LIME TO GIVE AN EVEN SHADE INCLUDING CLEANING AND BRUSHING OF WALLS AND PREPARING SURFACE IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE TO INCLUDE COST OF ALL MATERIALS INCLUDING COLOURING AGENT, APPROVED ADDESSIVE, SCAFFOLDING, BRUSH ETC. COMPLETE.	1470	M2			
17	MANUFACTURE, SUPPLY AND FIXING OF MS ROLLING SHUTTERS AS PER I.S. SPECIFICATIONS, COMPLETE, MECHANICALLY OPERATED FROM IN AND OUTSIDE BOTH AS INSTRUCTED BY BHEL ENGINEER INCLUDING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER (COST SHALL BE INCLUSIVE OF ALL THE ABOVE COMPLETE).	20	M2			
18	PROVIDING & APPLICATION OF SYNTHETIC ENEMAL PAINT OF BERGER OR EQUIVALENT MAKE AND COLOUR IN TWO COATS ALREADY HAVING PRIMER COATS AT ALL ELEVATIONS TO ACHIEVE AN EVEN SHED ALL ALONG THE MATARIALS, LABOUREQUIPENT HANDLING,INCLUDING PROTECTION & CLEANING	16.2	MT			
	TOTAL VALUE OF WORK OF SECTION-C IN Rs.					
INTERNAL ELECTRIFICATION OF CLOSED SHEDS AT BORL 3X33MW, BINA - SECTION-D						
SR. NO.	DESCRIPTION OF WORK	QTY	UNIT	RATE	RATE	AMOUNT
				IN FIGURE	IN WORDS	

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
1	Supplying & Installing Power Distribution Board complete with : 1) Incoming MCB TPH 100 Amps. - 1 No. 2) Outgoing MCB TPH 32 Amps. - 4 Nos.3) RCCB DP 25/20 Amps. - 3Nos.	1	Set			
2	Providing & Fixing Aluminium Dispersive Luminaire enameled green and white with cast Aluminium flange and nipple suitable for use with GLS lamp, dome 12" diameter, with hanging bracket and 200W GLS lamp of Crompton or equivalent BAJAJ/PHILIPS make, complete	125	Nos.			
3	Wiring with 2.5 sq mm ISI mark copper wire for above in PVC conduit to be laid on wall surface /strusses along with GI earth wire inclusive of all material, labour etc. Complete	125	Per Point			
4	Supplying & Fixing Wall Mounting type LIGHTING PANELS, each with : (1) Incoming MCB TPN -32 Amps - 1No. (2) RCCB DP 32 Amps - 3Nos	5	Sets.			
5	Providing Earth Pits with 2" dia., 2.5 Mtr. Long GI Pipes with flange and 8 SWG GI wire with Charcoal, Salt and as per IS 3043. Rate shall be inclusive of all material, labour etc. complete. A brick wall chamber with CI cover for all earth pits shall be provided.	5	NOS.			
	TOTAL VALUE OF WORK OF SECTION -D IN Rs.					

NAME OF WORK-ROADS, FENCING, DRAINAGE OF OPEN STORAGE AREA AT BORL 3X33MW, BINA- SECTION-E

SL.NO.	DESCRIPTION OF WORK	QTY.	UNIT	RATE IN FIGURE	RATE IN WORDS	AMOUNT
1	EXCAVATION FOR DRAINS IN ALL TYPES OF SOILS, SAND, GRAVEL OR SOFT MURAM INCLUDING DRESSING SECTION TO THE REQUIRED SLOPES AND SPREADING THE EXCAVATED EARTH UNIFORMLY IN THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT AS DIRECTED BY THE BHEL .	800	M3			
2	AREA CLEANING FOR OPEN STORAGE YARD BY CUTTING TREES, VEGETATIONS, GRASS & UPROOTING INCLUDING DISPOSAL OF THE SAME TO THE AREA EARMARKED INSIDE THE PLANT	2000	M2			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
3	DISPOSAL OF SURPLUS SOIL BEYOND INITIAL LEAD OF 100METRES AND TO A DISTANCE NOT EXCEEDING 1KM INCLUDING LOADING TRANSPORTING UNLOADING, SPREADING ,LEVELLING IN LOW LAYING AREAS OF OPEN STORAGE YARD. OR IN LOCATION DIRECTED BY ENGINEER IN CHARGE.	300	M3			
4	SUB GRADE PREPARATION: BY LEVELLING , WATERING AND ROLLING WITH 10-12 MT CAPACITY ROLLER PROVIDING NECESSARY SLOPE/CAMBER,GRADIENT BY AVERAGE CUTTING & FILLING OF 200MM THICK AVAILABLE EARTH WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	6000	M2			
5	CONSOLIDATION OF SUB-BASE BEFORE PROVIDING STONE SOLING WITH 10-12T POWER ROLLER INCLUDING LEVELLING, WATERING ETC. COMPLETE WITH ALL T&P , MATERIALS, LABOURS.	7000	M2			
6	PROVIDING AND LAYING SOLING 230 MM THK WITH 150 -200 MM THICK BOULDER SIZE AND FILLING THE VOIDS WITH HAND BROKEN METAL OF SIZE 40-60 MM SPREADING MURRUM AND ROLLING AND COMPACTION INCLUDING WATERING, WITH 10-12 MT CAPACITY ROAD ROLLER.	900	M3			
7	PROVIDING 150MM THICK WATER BOUND MACADAM (WBM) IN TWO LAYERS OF EACH 75MM, WITH 40MM TO 60MM METAL (STONE AGGREGATE) INCLUDING SUPPLYING AND SPREADING GRAVEL/MURRUM OVER THE SOLING/CONSOLIDATED BASE, COMPACTING THE SAME WITH POWER ROLLER INCLUDING NECESSARY LABOUR, WATERING, MATERINGS ETC. COMPLETE, ALL AS PER RELEVANT SPECIFICATIONS AND DIRECTIONS OF BHEL ENGINEER (RATE SHALL BE INCLUSIVE OF ALL LABOUR, MATERIALS ETC., COMPLETE).	150	M3			
8	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING 40MM & DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR FOUNDATION, FLOORING, ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	25	M3			

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
9	PROVIDING RANDOM RUBBLE MASONRY WITH HARD STONE IN FOUNDATION AND UPTO PLINTH WITH CEMENT MORTOR 1:6 INCLUDING COST OF MATERIAL , CEMENT AND POINTING WORKS WITH CEMENT MORTOR OF 1:4 FOR THE SITE EXPOSED PORTION OF MASONRY FOR PLINTHS	350	M3			
10	PROVIDING AND PLASTERING WITH CEMENT MORTAR 1:6 (12MM THICK) OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. OF ALL HEIGHTS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.	450	M2			
11	PROVIDING AND FIXING BARBED WIRE FENCING AROUND OPEN STORAGE YARD AS PER DRAWING/AS INSTRUCTED BY BHEL ENGINEER , INCLUDING POSTS OF MS ANGLES 50x50x6MM 2.00 M HIGH ABOVE GROUND AND 450MM EMBEDDED IN THE CONCRETE BELOW G.L AS PER STANDARD PRACTICE/AS INSTRUCTED BY BHEL ENGINEER, FIXING THE POSTS WITH FOUNDATION OF SIZE 0.30x0.30x0.45 M DEEP IN PCC OF MIX 1:3:6,THE POSTS SHALL BE SPACED AT 3M CENTRES AND STRUTS AT 30M CENTRES AND AT ALL TURNINGS WITH FOUNDATIONS,SUPPLYING AND FIXING GI BARBED WIRES, 10 HORIZONTAL LINES, TWO DIAGONALS BETWEEN POSTS BY MEANS OF GI STAPLES AS PER STANDARD PRACTICE. THE BARBED WIRE SHALL CONFORM TO IS 278 AND BE MADE OF TWO STRANDS OF GALVANISED TWISTED 2.5MM DIA (12.5 GAUGE) STEEL WIRE WITH FOUR POINT BARS. RATE QUOTED SHALL BE INCLUSIVE OF EXCAVATION, DISPOSAL OF SURPLUS EARTH, CONCRETE (1:3:6), FORM WORK AND ALL MATERIALS, COST OF POSTS, BARBED WIRES, TRANSPORTING, FIXING IN POSITION ETC. INCLUDING COST OF ALL LABOUR AND TWO COATS OF ENAMEL PAINT OF APPROVED SHADE WITH A SHOP COAT OF PRIMER IN ALL STRUCTURAL MEMBERS ETC COMPLETE.	600	RM			

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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
12	SUPPLY FABRICATION, AND FIXING IN POSITION OF MS GATES WITH STRUCTURAL/TUBULAR STEEL FRAMES WITH GALVANIZED CHAIN LINK MESH OF APPROVED DESIGN INCLUDING COST OF FOUNDATION & POSTS, PAINTING TWO COATS BY SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER, COST OF ALL MATERIALS, LABOUR, TRANSPORT ETC. COMPLETE.POST SHALL BE UNDER ITEM NO (11)	2.2	MT			
	TOTAL VALUE OF WORKSOF SECTION-D IN Rs.					

NAME OF WORK- EXTERNAL ILLUMINATION OF OPEN STORAGE YARD AT BORL 3X33MW ,BINA- SECTION - F

SL.NO.	DESCRIPTION OF WORK	QTY.	UNIT	RATE IN FIGURE	RATE IN WORDS	AMOUNT
1	SUPPLYING AND INSTALLATION& COMMISSIONING OF SODIUM VAPOUR LAMP STREEET LIGHT FITTING 150 WATT SIMILAR TO SSG - 2314 IH OF CROMPTON COMPLETE WITH ONE PICE CANOPY, INTEGRAL CONTROLGEAR COMPRISING COPPER WOUND CHOKE , IGNITOR , HPF CAPACITOR AND SUITABLE FOR DIRECTLY SLIPPING OVER LIGHT MOUNTING BRACKET MADE OUT OF 40 MM OD PIPE AND SUITABLE FOR LAMPS, CONTROL GEAR BOX CABLING & TERMINATION OF ITEMS SUPPLIED .	25	Nos.			
2	SUPPLY AND ERECTING STEEL TABULAR SWAGED POLES 9 MTR LONG MADE OF SHEET STEEL HAVING ULTIMATE TENSILE STRENGTH 42 KG F/SQ.MM CONFIRMING TO BIS :2713 (RPART-II) COMPLETE WITH 300X300X6 MM THICK M. S. BASE PLATE FOR WELDING AT SITE AND SIZE AS PER CONFIGURATION GIVEN IN BIS FOR 410 SP-28 (113 KG- POLE WEIGHT) WITH 1.5 MTR. DEEP EXACAVATION ,CONCRETING IN 1:4:8 RATIO SIZE 45 CMS X 45 CMS X 150 CMS AND POLE PLINTH IN 1:3:6 CEMENT CONCRETING HAVING 300 MM HEIGHT AND 300 MM DIA . THE POLE SHALL BE COMPLETE WITH MINOR FABRICATION AS BELOW	25	Nos.			
	I) DRILING 20 MM DIA HOLE AT ABOUT 2.5 MTR FROM GROUND LEVEL FOR WIRE LEADS FROM JUNCTION BOX TO LIGHT FIXTURE					

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
	II) DRILING 15 M DIA HOLES AT ABOUT 0.7 AND AT 2.5 MTR FROOM GROUND LEVEL AND WELDING 12 MM NUTS FOR USING A 12 MM G.I BOLT FOR FASTENING EARTH CONDUCTERS					
	IV) WELDING DIAMETRALLY 10 MM M.S. ROUND 30 MM BELOW POLE TOP EDGE FOR CLIPPING WIRE LEADS					
3	Engineering , Supply and installation of lattice type structural Tower of height 15M .Tower shall be fabricated in three section of equal lenght of 5 Meter each.Preparation of fabrication drawing & its approval from BHEL. Brief details are as given below	5	Nos.			
	Tower shall be adequately strong to withstand heavy wind . No stay/guy ropes shall be tied with it. At top of the tower adequate size of plateform shall be provided with railing around the platform for mounting of lighting luminaries tentatively Eight fitting on each tower and maintenance purpose , floor of platform shall be covered with chequered plate (Supply of light fitting is covered in item no 4). A ladder along with protective cage shall be provided along the height of tower. It should be painted with one coat red oxide primer and two coats of aluminium paint after installation. Each Tower shall be provided with power distribution box out door type and should have provision of terminating one number incoming and eight out going cable .Erecting at site including all civil works like excavation, casting of foundation of required size and depth with concrete of grade 1:2:4 with base plates, grouting of lattice structure, One earth pit as per BIS standard is to be made near the tower and earthing of the tower including supply of material etc. complete.					
4	Supply, of flood light luminaries of BAJAJ make Type BGENF 22 OR equivalent in Crompton , Phillips only, Each luminaries shall be with two number 400 watt HPSV lamps and control gear box integral/ non itegral type including cables for interconnection . (These fitting shall be mounted on lighting mast /tower , on each tower 8 such fitting shall be mounted)	40	Nos.			
5	Supply of Cables 3 -1/2 Core x 70 sqmm Aluminium armoured PVC Insulated Cable (Three and half core) Confirming to IS 1554 (Part -I)	600	Mtrs			

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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
6	Installation of Cables 3 -1/2 Core x 70 sqmm Aluminium armoured PVC Insulated Cable Confirming to IS 1554 (Part -I) including laying of cable below ground, excavation of trench of 600 mm depth in all kind of soil, termination of cables cores with crimp type luggs, providing sand layer below/ above the cable, brick laying both side /above the above the cable and back filling etc complete. Cables are to be laid from 415 Volt AC Distribution Board to Feeder Pillar board , Feeder Pillar Board to Lighting Mast / Tower.	600	Mtrs			
7	Supply of Cables 2 Core x 10 sqmm Aluminium armoured PVC Insulated Cable Confirming to IS 1554 (Part -I)	500	Mtrs			
8	Installation of Cables 2 Core x 10 sqmm Aluminium armoured PVC Insulated Cable Confirming to IS 1554 (Part -I) including laying of cable below ground , excavation of trench of 600 mm depth in all kind of soil, termination of cables cores with crimp type luggs, providing sand layer below/ above the cable, brick laying both side /above the above the cable and back filling etc complete. Cables are to be laid from 415 Volt AC Power Feeder Pillar Board Board to Lighting poles & Pole to Pole	500	Mtrs			
9	Supply of Cables 3 -1/2 Corex 185 sqmm Aluminium armoured PVC Insulated Cable (Three and half core) Confirming to IS 1554 (Part -I)	525	Mtrs			
10	Installation of Cables 3 -1/2 Corex 185 sqmm Aluminium armoured PVC Insulated Cable Confirming to IS 1554 (Part -I) including laying of cable below ground , excavation of trench of 600 mm depth in all kind of soil, termination of cables cores with crimp type luggs, providing sand layer below/ above the cable, brick laying both side /above the above the cable and back filling etc. Cables are to be laid from Transformer Sub station to 415 Volt AC Distribution Board	525	Mtrs			

SIGNATURE OF THE CONTRACTOR WITH SEAL

BHEL-PS-WR
PRICE BID,PART-II, VOL-II
(RATE SCHEDULE)
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Sl.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
11	Supply of 415 volt AC , 3 phase /four wire Power Distribution Board , Board shall be comprises of one number switch Fuse Unit (ICTPN) 400 Amps rating, 3 Nos FSU (ICTPN) 100 Amps Rating, Energy Meter for power measurement , Phase Indication Lamp, Power Terminals stud type for incoming & outgoing cables termination, provision for earthing the panel enclosure, Panel enclosure shall be made of sheet metal thichnness not less than 1.6 mm and suitable for out door installation, hinged door with locking arrangement ,base frame , should have slopped canopy,Duly painted with first coat with primer then two coats of synthetic enamel paint (interior with white paint and exterior with smoke gray as per IS) internal power distribution to devices shall be with AL bus bar OR copper flexible single core PVC cable of 1.1 KV grade, control wiring with 1.5 sqmm, Suitable stool made out of MS structure of 1.2 meter high for mounting of panel with anchoring arragement at foundation .	2	No.			
12	Providing suitable foundation for mounting AC Distribution Board as specified in sl. No.15 , Installation & commissioning of panel	2	No.			
13	Supply of 415 volt AC , 3 phase /four wire Power feeder Pillar Board , Board shall be comprises of Three number and one number Aluminium Bus Bar for phase & neutral respectively. bus bar rating shall be 200 Amps and shall be mounted on epoxy insulator of 1.1 KV grade, Each bus bar shall have drilled hole for connecting incoming / out going cables, provision for earthing the panel enclosure. Panel enclosure shall be made of sheet metal thichnness not less than 1.6 mm and suitable for out door installation, hinged door with locking arragement , base frame , should have slopped canopy, Duly painted with first coat with primer and two coats of synthetic enamel paint (interior with white paint and exterior with smoke grey as per IS), Suitable stool made out of MS structure of 1.2 meter high for mounting of panel with anchoring arragement at foundation .	2	Nos.			
14	Providing suitable foundation for mounting 415 volt AC Power Feeder Pillar Board as specified in sl. No.12 , Installation & commissioning of of panel	2	Nos.			
	TOTAL VALUE OF WORK OF SECTION-F IN Rs.					

SIGNATURE OF THE CONTRACTOR WITH SEAL

**BHEL-PS-WR
PRICE BID,PART-II, VOL-II
(RATE SCHEDULE)
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SI.No	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
				IN FIGURE	IN WORD	
	SUMMERY SHEET OF BOQ					
SR.NO.	PARTICULARS				AMOUNT	
SECTION A	SITE OFFICE SHED(10M.X40M)					
SECTION B	ELECTRIFICATION IN SITE OFFICE BUILDING					
SECTION C	CLOSED STORE SHED(15M.X60M.)					
SECTION D	ELECTRIFICATION IN STORE SHED BUILDING					
SECTION E	FENCING, DRAINAGE OF OPEN YARD					
SECTION F	ELECTRIFICATION IN YARD AREA					
TOTAL OF ALL ABOVE						
% REBATE IF ANY ON ABOVE TOTAL VALUE						
NET QUOTED PRICE IN RS						
TOTAL IN WORDS (Rs)						

SIGNATURE OF THE CONTRACTOR WITH SEAL