

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

NAME OF THE WORK: CIVIL WORKS FOR SITE OFFICE (10Mx60Mx3.20M-1No + BARANDAS 1x60M HEIGHT 2.5 TO 3M) AT NTPC KORBA STPS 1x500MW.						
SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
RATE SCHEDULE, SECTION - A						
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 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.	700	M3			
1(B)	EARTH WORK EXCAVATION UPTO 0 TO 2 M DEPTH IN ALL KINDS OF SOIL INCLUDING HARD ROCK AND SOFT ROCK (MANUALLY OR MECHANICALLY WITHOUT BLASTING) 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.	100	M3			
1(C)	EXCAVATION IN ALL KINDS OF SOIL INCLUDING. SOFT & HARD ROCK (MANUALLY OR MECHANICALLY WITHOUT BLASTING) UPTO 2 TO 4M DEPTH FOR FOUNDATIONS RAFT & COLUMNS ETC. COMPLETE INCLUDING DISPOSAL OF SURPLUS EARTH (IF ANY) NCLUDING DEWATERING WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	20	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.	400	M3			
2(B)	PROVIDING & FILLING IN SOAK PIT WITH BRICK BATS 40-80MM INCLUDING PACKING ETC. COMPLETE,AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	32	M3			
2(C)	BACK FILLING THE FOUNDATION AND PLINTH WITH RIVER SAND IN LAYERS NOT EXCEEDING 15 CM THICKNESS INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	150	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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SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
4	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.	130	M3			
5	PROVIDING DPC WITH CC 1:2:4 50MM THICK INCLUDING BITUMEN COATING AS PER STANDARD PRACTICE AND SPECIFICATIONS.	50	M2			
6	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.	7	MT			
7(A)	PROVIDING BURNT CLAY 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 AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	130	M3			
7(B)	PROVIDING FLY ASH 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 AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	130	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	150	M2			
9 (A)	DESIGN, MANUFACTURE, SUPPLY AND ERECTION OF 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 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.	12	MT			

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				IN FIGURES	IN WORDS	
9(B)	...DO.. STRUCTURAL STEEL STAGING FOR ERECTION OF PVC O.H.WATER TANK CAP. 1000 LITRES	1.2	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 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.	800	M2			
12(A)	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.	30	M2			
12(B)	SUPPLYING,ERECTING, ASSEMBLING BEST QUALITY PVC PANELLED DOORS OF SINTEX MAKE OR APPROVED EQUIVALENT FOR TOILETS INCLUDING ALL FITTINGS AND FIXTURES ETC. ALL COMPLETE AS PER DRAWINGS AND SPECIFICATIONS.	15	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.					
13(A)	i) STEEL WINDOWS	55	M2			
13(B)	ii) STEEL LAUVERED VENTILATORS :-	6	M2			

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SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
14 (A)	PROVIDING & FIXING PARTITION OF PRELAMINATED PARTICLE BOARD 12MM THICK WITH ANODISED ALLUMINIUM FRAMES, BIDDING ETC. COMPLETE UP TO A HEIGHT OF 900MM FROM FINISHED FLOOR LEVEL (I.E. BELOW ALLUMINIUM GLAZED PARTION)	100	M2			
14(B)	PROVIDING & FIXING ANODISED ALLUMINIUM GLAZED PARTITION WITH HOLLOW EXTRUDED SECTION OF MIN. 3MM THICKNESS AS MANUFACTURED BY INDAL OR EQUIVALENT WITH MATCHING SINGLE DOOR SHUTTERS & FLOOR MOUNTED HYDRAULIC DOOR CLOSER (1 NO.) INCLUDING GLAZING OF 5.5MM THICK FLAT TRANSPERANT SHEET GLASS, BIDDING, CONCEALED SCREWS, HOLDFFAST ETC.COMPLETE	65	M2			
15 (A)	PROVIDING AND FIXING IPS FLOORING 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.	60	M2			
15 (B)	PROVIDING AND FIXING PVC FLOORING INCLUDING PREPARATION, FIXING TILE FINISHING ETC., ALL COMPLETE AS PER APPROVED MANUFACTURER'S SPECIFICATION.	50	M2			
15 (C)	PROVIDING 3MM THICK NEAT CEMENT FINISH OVER CONCRETE BASE FOR FLOORING PAVING ETC.	100	M2			
15 (D)	SUPPLYING AND FIXING WHITE GLAZED TILES OF SIZES 300X300X5MM FOR FLOORING AND 150X300X5 FOR DADO UP TO 2.1 M ELEVATIONS INCLUDING PEREPARATION OF BASE LAYING UNDERBED, FINISHING AND ROUNDING CORNERS AND JUNCTIONS, CURING ETC. COMPLETCAS PER DRAWINGS AND SPECIFICATIONS.	75	M2			
16.A	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.					
16.B	(i) EXTERNAL PLASTER 18MM THICK	750	M2			
16.C	(ii) INTERNAL PLASTER 12MM THICK	1000	M2			
17 (A)	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.	700	M2			

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17 (B)	PAINTING THREE COATS OF CEMENT PAINT (SUPER SNOW CEM) OF APPROVED QUALITY AND SHADE ON NEWLY PLASTERED SURFACE TO GIVE AN EVEN SHADE INCLUDING CLEANING, PREPARING THE SURFACE AND CURING, SCAFFOLDING ETC. COMPLETE. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR, CONSUMABLES ETC. COMPLETE	700	M2			
17 (C)	PROVIDING & APPLYING TO INTERIOR SURFACES TWO OR THREE COATS OF OIL BOUND DISTEMPER OF APPROVED SHADE & MAKE CONFIRMING TO IS : 428 TO OBTAIN A EVEN FINISH AND UNIFORM COLOR OVER A COAT OF PRIMER AS PER MANUFACTURE RECOMMENDATION INCLUDING COST OF PAINT, SURFACE PREPARATION WITH POP (Plaster of Paris), SCAFFOLDING ETC, COMPLETE .	1000	M2			
18	PROVIDING AND FIXING HYDRAULIC DOOR CLOSER (HEAVY DUTY) OF APPROVED BRAND AND AS DIRECTED BY BHEL ENGINEER.	10	NO.			
19	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.	6	NO			
20(A)	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 ENGINEER-INCHARGE, 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.	3	NO			
20(B)	EUROPEAN TYPE TYPE WATER CLOSET CONFORMING TO IS:2556 WITH WHITE GLAZED STONE WARE BASIN WITH PLASTIC SEATS & COVER AND LOW LEVEL PVC CISTERN OF 15 LITRE DISCHARGE CAPACITY INCLUDING VALVELESS FITTINGS, FLUSH BENDS, SUPPLY CONNECTIONS, SYPHON , INTEGRAL 'S' OR 'P' TRAP ETC. ALL COMPLETE.	2	NO			

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SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
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21	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 MM OF APPROVED MAKE AND QUALITY WITH AUTOMATIC FLUSHING CISTERN WITH CI/MS BRACKETS, STANDARD SIZE GI FLUSH PIPE AND SPREADERS WITH BRASS UNIONS, GICLAMPS (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) URINAL BASIN WITH 5 LITRES CI AUTOMATIC FLUSHING CISTERN IN STORE CUM OFFICE SHED.	7	NO			
22	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			
23	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	15	NO			
24 (A)	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.	6	NO			
24 (B)	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION 25MM DIA GATE VALVE	4	NO			
24 (C)	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION 40MM DIA GATE VALVE	2	NO			
25	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.	4	NO			
26	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.	4	NO			

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27	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.	4	NO			
28	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.					
28.A	40MM DIA GI PIPE LINE WITH ALL SPECIALS	40	RM			
28.B	25MM DIA GI PIPE LINE WITH ALL SPECIALS	100	RM			
28.C	15MM DIA GI PIPE LINE WITH ALL SPECIALS	100	RM			
29	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 TARRER 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) (100MM) DIA STONEWARE PIPELINE INCLUDING ALL SPECIALS COMPLETE.	100	RM			
30	SUPPLY AND FIXING IN POSITION PVC WATER OVERHEAD TANK OF SYNTHEX OR ANY APPROVED MAKE OF 1000LITRE 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.	3	NO			
31	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.					

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31.A	450X450X450 WITH C.I COVER	4	NO			
31.B	B) –DO- 600X600X600 WITH C.I. COVER	3	NO			
32.A	I) PROVIDING AND FIXING ANODISED ALUMINIUM (1M LONG) TOWEL RODS OF GOOD QUALITY IN TOILET BLOCKS & PANTRY	6	NO.			
32.B	II) PROVIDING & FIXING LIQUID SOAP DISPENSER AT ALL THE WASH BASIN LOCATION	6	NO.			
33	PROVIDING & FIXING WOODEN FRAME OF BEST COUNTRY WOOD (2.5"x3.0") FOR INSTALLING PORTABLE 2-T AIR CONDITIONAR 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.	7	NOS.			
34	PROVIDING & FIXING IN POSITION AC VENT PIPE OF DIA. 100MM (HT. 3M) IN SEPTIC TANK	9	RM			
35	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	6	Nos.			
36	PROVIDING AND FIXING METALLIC DECORATIVE TYPE HEAVY DUTY PELMET FOR DOORS AND WINDOWS AS APPROVED BY BHEL ENGINEER.	38	EACH			
37	PROVIDING AND FIXING OF 2 NOS. WATER PURIFIER AQUA-GUARD OR EQUIVALENT, ALONG WITH ALL FITTINGS	2	NOS.			
38	PROVIDING AND FIXING OF 1 NO. 18"x24" SIZE STAINLESS STEEL SINK WITH ALL FITTINGS LIKE DRAIN PIPE, STOP VALVE ETC.	1	NO.			
39	PROVIDING SERVICES OF DIPLOMA CIVIL ENGINEERS WITH MINIMUM 2 YEARS EXPERIENCE OF CONSTRUCTION WORKS OF POWER PLANTS FOR SUPERVISION OF CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS, MAINTAINING QUALITY RECORDS, POURING CARDS,CHECK LIST, ESTIMATION OF WORKS, LOG SHEETS, PROTOCOLS VERIFICATION & PROCESS OF R/A BILLS, ISSUE OF MATERIALS (REINFORCEMENT & STR, STEEL TO CONTRACTORS), INSPECTION AND FOLLOW UP VENODOORS FOR PROCUREMENT OF REINFORCEMENT STEEL AND STR. STEEL ETC. COMPLETE FOR MINIMUM TWO YEARS PERIOD.	9	MAN MONTH			
	TOTAL VALUE OF WORK FOR SECTION-A IN Rs.					

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NAME OF THE WORK : INTERNAL ELECTRIFICATION WORK OF BHEL SITE OFFICE& SECURITY CABIN AT NTPC KORBA STPS 1x500MW						
1	<p>SUPPLYING & INSTALLING 3 PHASE METER AND POWER DISTRIBUTION BOARD COMPLETE WITH :</p> <p>(1) INCOMING MCB TPN 100 AMPS -1NO. (2) OUTGOING DP RCCBS ,63 AMPS.30 MA -3NOS. (3) DP RCCB 25/20 AMPS ,30MA -9NOS (4) OUTGING DP MCB , 6AMPS, - 20 NOS, (5) OUTGOING SP MCB , 6AMPS, -12 NOS (6) ENERGYMETER CT OPERATED -1NO. (7) VOLTMETER WITH SELECTOR SWITCH -1NO (8) AMMETER WITH SELECTOR SWITCH - 1NO</p> <p>.ALL RCCBS, MCBS SHALL BE MDS/INDO KOPP MAKE 3 PHASE ELECTRONIC ENERGY METER - BHEL / L&T / GEC MAKE AMMETER, VOLTMETER, SELECTOR SWITCHES FOR BOTH - AE / KAYCEE MAKE PHASE INDICATION LAMPS, PROVISION FOR DOUBLY 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, MODULAR CONSTRUCTION PREFERABLY IN 2 MODULES (1 FOR ENERGY METER & 1 FOR DISTRIBUTION), HINGED DOOR WITH LOCKING ARRANGEMENT, BASE FRAME, SHOULD HAVE SLOPPED CANOPY, DULY PAINTED WITH FIRST COAT OF PRIMER AND TWO COATS OF SYNTHETIC ENAMEL PAINT (INTERIOR WITH WHITE PAINT AND EXTERIOR WITH LIGHT GREY AS PER SHADE 5, IS 630) INTERNAL POWER</p>	1	Set			
	DISTRIBUTION SHALL BE WITH AL BUSBARS OR COPPER FLEXIBLE SINGLE CORE PVC CABLES 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, SUITABLE FOR BOTTOM ENTRY OF CABLES					
2	PROVIDING AND INSTALLING WIRING USING 2.5 MM2 COPPER CONDUCTOR THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR COMPUTER ROMM, OFFICE SHED & FOR REST OF SHEDS OPEN IN PVC CONDUIT OF REQUIRED SIZE.	90	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 CONCEALED TYPE FOR COMPUTER ROMM, OFFICE SHED & FOR REST OF SHEDS OPEN IN PVC CONDUIT OF REQUIRED SIZE.	40	PER POINT			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
4	PROVIDING AND INSTALLING WIRING FOR MAINS USING 6.00SQ.MM COPPER CONDUCTOR OF ISI MAKE. USING CONCEALED TYPE WIRING/PVC CONDUIT OF REQUIRED SIZE.	10	PER POINT			
5	PROVIDING AND INSTALLING WIRING FOR MAINS USING 16.00SQ.MMCOPPER CONDUCTOR OR ISI MAKE USING CONCEALED TYPE WIRING/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.	70	PER POINT			
7	POVIDING AND INSTALLATION OF PLUG POINT OF 5A/15A SOCKET (ANCHOR OR EQUIV.) OUTLET INCLUDING WIRING TERMINATION.	20	NO			
8	PROVIDING AND FIXING ORDINARY TUBELIGHT WITH FRAME OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL.	80	NO.			
9	PROVIDING AND FIXING EXHAUST FANS 12" DIAMETER WITH FRAME OF STANDARD MANUFACTURER LIKE CROMPTAN GREEVES OR EQUIVALENT AS APPROVED BY BHEL.	4	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.	40	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.	60	NO			
13	PROVIDING AND FIXING CALLING BELLS (WITH INDICATOR LIGHT)	10	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 WORK FOR SECTION-B IN Rs.					

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
RATE SCHEDULE, SECTION - C						
CONSTRUCTION OF CLOSED STORAGE SHED 3NOs. AT KORBA NTPC STPS 1x500MW						
1(A)	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 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.	1200	M3			
1(B)	A) EARTH WORK EXCAVATION UPTO 0 TO 2 M DEPTH IN ALL KINDS OF SOIL INCLUDING 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.	50	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.	800	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.	1500	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.	400	M3			
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.	220	M3			

BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
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.	300	M3			
4(C)	PROVIDING DPC WITH CC 1:2:4 50MM THICK INCLUDING BITUMEN COATING AS PER STANDARD PRACTICE AND SPECIFICATIONS.	150	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 AND MS BINDING WIRE 18/20 GAUGE ETC. COMPLETE.	23	MT			
6(A)	PROVIDING BURNT CLAY 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 AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	375	M3			
6(B)	PROVIDING FLY ASH 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 AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	375	M3			
7	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	75	M2			

BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
8	DESIGN, MANUFACTURE, SUPPLY AND ERECTION OF 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 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.	47	MT			
9	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.	4000	M2			
10	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.	180	M2			
11	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.	12	M2			
12	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.					
12(A)	i) STEEL WINDOWS	12	M2			
12(B)	ii) STEEL LAUVERED VENTILATORS :-	30	M2			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
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	2200	M2			
13(B)	(ii) INTERNAL PLASTER 12MM THICK	2500	M2			
14(A)	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 ADHESIVE, SCAFFOLDING, BRUSH ETC. COMPLETE. (INTERNAL WALL)	2500	M2			
14(B)	PAINTING THREE COATS OF CEMENT PAINT (SUPER SNOW CEM) OF APPROVED QUALITY AND SHADE ON NEWLY PLASTERED SURFACE TO GIVE AN EVEN SHADE INCLUDING CLEANING, PREPARING THE SURFACE AND CURING, SCAFFOLDING ETC. COMPLETE. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR, CONSUMABLES ETC. COMPLETE (EXTERNAL WALL)	2500	M2			
15	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).	64	M2			
	TOTAL VALUE OF WORK FOR SECTION-C IN Rs.					

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
RATE SCHEDULE, SECTION - D						
INTERNAL ELECTRIFICATION OF CLOSED SHEDS 3NO AT KORBA NTPC STPS 1x500MW						
1	Supplying & Installing Power Distribution Board complete with : 1) Incoming MCB TPH 100 Amps. - 1 No. Outgoing MCB TPH 32 Amps. - 4 Nos.. 25/20 Amps. - 3Nos. MCB SP 6 Amps - 6Nos. All RCCBs, MCBs shall be MDS/INDO KOPP make Distribution Boards shall be SIEMENS / MDS / INDO KOPP make with internal busbars, internal wiring, 2 nos. earthing terminals, earth connections, including Glands, Lugs	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.	75	Nos.			
3	Wiring with 2.5 sq mm ISI mark copper wire for above in PVC conduit along with GI earth wire inclusive of all material, labour etc. Complete	75	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 (3) MCB SP 6Amps - 30 Nos. All MCBs and RCCBs shall be of MDS / INDO KOPP make Lighting Panel shall be SIEMENS/MDS/INDO KOPP make with internal busbars, 2 nos. earthing terminals, earth connections, including Glands, Lugs & wiring from main DB.	3	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.	3	NOS.			
	TOTAL VALUE OF WORK FOR SECTION-D IN Rs.					

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
	BHEL:PSWR:NAGPUR					
	RATE SCHEDULE, SECTION - E					
NAME OF WORK-ROADS, FENCING, DRAINAGE OF OPEN STORAGE AREA AT KORBA NTPC STPS 1x500MW						
1	EXCAVATION FOR ROADWAY IN ALL TYPES OF SOILS, SAND, GRAVEL OR SOFT MURAM INCLUDING DRESSING SECTION TO THE REQUIRED GRADE, CAMBER AND SIDE SLOPES(MAX DEPTH OF EXCAVATION BEING 300MM AVG) AND SPREADING THE EXCAVATED EARTH UNIFORMLY IN THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT AS DIRECTED BY THE BHEL& CONSOLIDATION OF THE SURFACE BY ROLLING THE SURFACE WITH 10/12 CAPACITY POWER ROLLER .	15000	M2			
2	EXCAVATION FOR SIDE DRAINS/DRAINS IN ALL KINDS OF SOILS, TO THE SPECIFIED SECTION INCLUDING SPREADING THE EXCAVATED EARTH UNIFORMLY IN THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT, DISPOSING THE SURPLUS EARTH (IF ANY) AT THE AREA EARMARKED OUTSIDE THE PLANT WITHIN 1 KM DISTANCE AS DIRECTED BY THE BHEL ENGINEER.	2000	M3			
3	SUB GRADE PREPARATION: LEVELLING, WATERING AND ROLLING WITH 10-12 MT CAPACITY ROLLER FOR SUB BASE PREPARATION BY AVERAGE CUTTING & FILLING OF 200MM THICK AVAILABLE EARTH WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	60000	M2			
4	PROVIDING AND LAYING SOLING 300 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 IN TWO LAYERS.	3800	M3			
5	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).	2500	M3			
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.	100	M3			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
8(A)	PROVIDING BURNT CLAY 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 AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	260	M3			
8(B)	PROVIDING FLY ASH 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 AT ALL ELEVATIONS AND LEVELS INCLUDING RAKING OUT JOINTS, CURING ETC. COMPLETE EXCLUDING PLASTERING & PAINTING.	260	M3			
9	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.	3000	M2			
10	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.	1500	RM			
12	SUPPLYING & FIXING IN POSITION RCC HUME PIPE OF 450 DIA NP2 WHEREVER DRAIN CROSSES THE ROADS INCLUDING ALIGNING,LEVELLING ETC. COMPLETE AS PER THE DIRECTION OF ENGINEER. INCLUDING P.C. & INCLUDING COLLAR JOINTS, ENCASMENT WITH CONCRETE 1:3:6 OF 300 MM DIA , ENCASING SHALL BE PAID EXTRA UNDER RESPECTIVE ITEMS OF CONCRETE..	110	RM			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
13	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 (12)	3	MT			
	TOTAL VALUE OF WORKS FOR SECTION-E IN Rs.					

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
RATE SCHEDULE, SECTION - F						
NAME OF WORK- EXTERNAL ILLUMINATION OF OPEN STORAGE YARD AT KORBA NTPC STPS 1x500MW .						
SL.NO.	DESCRIPTION	UNIT	QTY	RATE		AMOUNT IN Rs.
				IN FIGURES	IN WORDS	
1	SUPPLYING, INSTALLATION & COMMISSIONING OF SODIUM VAPOUR LAMP STREET LIGHT FITTING 150 WATT SSG-2315 IH OF CROMPTON OR SIMILAR PHILIPS MAKE, COMPLETE WITH ONE PIECE CANOPY, INTEGRAL CONTROLGEAR COMPRISING OF COPPER WOUND CHOKE , IGNITOR , HPF CAPACITOR, HPSV LAMP 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 (TO BE MOUNTED ON 9 MTR POLE - ITEM NO. 2).	Nos.	30			
2	SUPPLY AND ERECTING STEEL TUBULAR 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 . including double earthing of pole with suitable arrangement, duly painted with two coats of Red Oxide paint and one coat of Aluminium paint to be applied after erection; the length of pole below ground to be painted with two coats of black bituminus paint. The pole shall be complete with JB, Fuse and minor fabrication as below :	Nos.	30			
	I) DRILING 20 MM DIA HOLE AT ABOUT 2.5 MTR FROM GROUND LEVEL FOR WIRE LEADS FROM JUNCTION BOX TO LIGHT FIXTURE					
	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					
	III) WELDING REQUIORED HOLES FOR FIXING POLE CAP OF STREET LIGHT BRACKET					
	IV) WELDING DIAMETRALLY 10 MM M.S. ROUND 30 MM BELOW POLE TOP EDGE FOR CLIPPING WIRE LEADS					
3	Supply of Steel Tubular Swaged Pole 9 Meters long type 410 SP -28 as per BIS 2713 (Part - II) complete with base M.S. plate size 300x 300 x 8 mm , suitable mounting arrangement for mounting two number flood light luminaries of Crompton make (FBD 1425/40- HPSV) or equivalent on each pole , including earthing of pole with suitable arrangement , duly painted with two coats of Red Oxide paint and one coat of Aluminium paint to be applied after erection, the lenght of pole below ground to be painted with two coats of black bituminus paint.	Nos.	25			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
4	Erection of Steel Tubular Swaged Pole 9 Meters long type 410 SP -28 as per BIS 2713 (Part - II) complete with base M.S. plate size 300x 300 x 8 mm , Providing cement concrete foundation including excavation of pit size 450 x 450 mmx depth 1.5 Metres in all type of soil, concreting in 1:3:6, concrete foundation all around the pole foundation and up to 200 mm above the ground level and tapered suitably into collar, height plinth duly plastered and necessary curing , finishing and back filling etc.	Nos.	25			
5	Supply of weather proof flood light luminaries of Crompton make (FBD 1425/40-with high pressure sodium vapour lamp 1x 400 watt along with non- integral type control gear box having adequate number of terminal connectors for terminating two cable of 3x 10 sqmm AL and suitable for out door application) or equivalent in BAJAJ, Phillips only , including supply & fixing cables between the control gear box and light luminaries and mounting fixture with hardware for mounting of light luminaries and control gear box on pole type 410 SP-28.	Nos.	50			
6	Installation & commissioning of flood light luminaries, control gear box , cabling & termination for sr.no.01 (Items supplied above)	Nos.	50			
7	Engineering , Supply and installation of lattice type structural Tower of height 15M .Tower shall be fabricated in three section of equal length of 5 Meter each.Preparation of fabrication drawing & its approval from BHEL. Brief details are as given below	Nos.	2			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
	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 platform shall be provided with railing around the platform for mounting of lighting luminaries(tentatively Twelve fitting on each tower) and maintenance purpose , floor of platform shall be covered with chequered plate. 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.					
8	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 integral type including cables for interconnection . (These fitting shall be mounted on lighting mast /tower , on each tower 8 such fitting shall be mounted)	Nos.	16			
9	Supply of Cables 3 -1/2 Core x 95 sqmm Aluminium armoured PVC Insulated Cable (Three and half core) Confirming to IS 1554 (Part -I)	Mtrs	500			
10	Installation of Cables 3 -1/2 Core x 95 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.	Mtrs	500			
11	Supply of Cables 2 Core x 10 sqmm Aluminium armoured PVC Insulated Cable Confirming to IS 1554 (Part -I)	Mtrs	1200			
12	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	Mtrs	1200			
13	Supply of Cables 3 -1/2 Core x 185 sqmm Aluminium armoured PVC Insulated Cable (Three and half core) Confirming to IS 1554 (Part -I)	Mtrs	600			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
14	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	Mtrs	600			
15	Supply of Cables 3 -1/2 Corex 35 sqmm Aluminium armoured PVC Insulated Cable (Three and half core) Confirming to IS 1554 (Part -I)	Mtrs	500			
16	Installation of Cables 3 -1/2 Corex 35 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	Mtrs	500			

**BHEL-PS-WR
RATE SCHEDULE
PRICE BID, PART-II, VOLUME-II**

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
17	Supply & Installing 3 Phase Metering and Power Distribution Board complete with : (1) Incoming SFU TPN 400 AMPS- 1No, (2) Outgoing SFU TPN 200 Amps -2Nos. (3) Outgoing SFU TPN 100 Amps -2Nos. (4) Outgoing SFU TPN 32 Amps -2Nos. 3 Phase Electronic Energy Meter - BHEL / L&T / GEC make Ammeter, Voltmeter and Selector switches for both - AE and Kaycee make Phase Indication Lamps, HRC fuses for IC and OG feeders, Cable glands, Power Terminals for cables termination, cable lugs and provision for doubly 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, modular construction, hinged door with locking arrangement, base frame, should have slopped canopy, duly painted with first coat of primer and two coats of synthetic enamel paint (interior with white paint and exterior with light grey as per shade 5, IS 630) internal power distribution to devices shall be with AL busbars OR copper flexible single core PVC cables 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, suitable for bottom entry of cables	No.	1			
18	Providing suitable foundation for mounting AC Distribution Board as specified in sl. No.15 , Installation & commissioning of panel	No.	1			
19	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 arrangement , 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 .	Nos.	2			
20	Providing suitable foundation for mounting 415 volt AC Power Feeder Pillar Board as specified in sl. No.12 , Installation & commissioning of of panel	Nos.	2			
	TOTAL VALUE OF WORK FOR SECTION-F IN Rs.					

SL.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE		AMOUNT
				IN FIGURES	IN WORDS	
BHEL:PSWR:NAGPUR						
SUMMARY SHEET OF BOQ						
T. S. NO: BHE/PW/PUR/KNT-ENB/449						
SR.NO.	PARTICULARS	AMOUNT IN Rs				
SECTION A	CIVIL WORK FOR SITE OFFICE					
SECTION B	INTERNAL ELECTRIFICATION OF BHEL SITE OFFICE					
SECTION C	CONSTRUCTION OF CLOSED STORAGE SHED 3NOs					
SECTION D	INTERNAL ELECTRIFICATION OF CLOSED SHED 3NOs					
SECTION E	ROAD, FENCING, DRAINAGE OF OPEN STORAGE AREA					
SECTION F	EXTERNAL ILLUMINATION OF OPEN STORAGE YARD					
TOTAL OF ALL ABOVE						
% REBATE IF ANY ON ABOVE TOTAL VALUE						
NET QUOTED PRICE IN RS						
NET QUOTED VALUE IN WORDS (Rs)						