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TENDER SPECIFICATION

TENDER NO. BHEL/ NR/SCT/VYASI HEP / EW/1006

FOR

**“CONSTRUCTION OF 02 NOS. CLOSED STORAGE SHEDS AND
DEVELOPMENT OF OPEN STORAGE YARD AT BHEL 2X60 MW, VYASI HEP
SITE, DISTT. DEHRADUN, UTTARAKHAND.”**

PART II – PRICE BID



**Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301.**

TENDER NO. BHEL/ NR/SCT/VYASI HEP / EW/1006



ISO 9001, ISO 14001,
OHSAS 18001 & SA 8000
certified company
SubContract and Purchase Deptt.

Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301(INDIA)
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TENDER NO BHEL/ NR/SCT/VYASI HEP / EW/1006

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THIS TENDER SPECIFICATION ISSUED TO:

M/S-----



RATE SCHEDULE

TENDER NO. BHEL/ NR/SCT/VYASI HEP / EW/1006		
JOB- Construction of 02 Nos. Closed Storage Sheds and Development of Open Storage Yard at BHEL 2x60 MW, Vyasi HEP Site, Distt. Dehradun, Uttarakhand.		
ITEM NO.	Description of Item	Total Amount "A" in Rupees (in figures and words)
1.0	Lumpsum price for the work of "Construction of 02 Nos. Closed Storage Sheds and Development of Open Storage Yard at BHEL 2x60 MW, Vyasi HEP Site, Distt. Dehradun, Uttarakhand."	
	Note: The rates of different items for the entire scope shall be worked out & awarded as per "Annexure B"	
Name :-		
Place :-		
Date:-		
Signature of the Bidder With Stamp		

BOQ CUM RATE SCHEDULE

SCOPE: CONSTRUCTION OF 02 NOS. CLOSED STORAGE SHEDS AND DEVELOPMENT OF OPEN STORAGE YARD AT 2X60 MW VYASI HEP SITE, DISTT. DHRADUN, UTTARAKHAND. SCOPE INCLUDES 01 NO. CLOSED STORAGE SHED WITH OFFICE, CONFERENCE HALL, PANTRY, TOILET ETC. AND 01 NO. CLOSED STORAGE SHED FOR STORGAE PURPOSE ONLY WITH SIDE RACKS, REUSING THE STRUCTURAL STEEL MATERIALS TRANSPORTED FROM OTHER BHEL SITES TO VYASI HEP SITE.

SL.N O	ITEM CODE NO.	DESCRIPTION OF WORK	UNIT	TOTAL QTY	FACTOR (F)	RATE (Rs.) = FACTOR (F) * A / 100000 (Rounded off to two places after decimal)	AMOUNT (Rs.) = RATE * QUANTITY
	SECTION C	CIVIL WORKS FOR CONSTRUCTION OF 02 NO. CLOSED STORAGE SHEDS (10MX50MX5M)					
		EARTH WORK					
1	C1	EARTH WORK IN EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT SOFT ROCK AND HARD ROCK) FOR FOUNDATIONS, SEPTIC TANK, SOAK PIT, RAMPS ETC., AS DIRECTED BY BHEL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, INCLUDING LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM	406	1.6543		
2	C2	EARTH WORK IN EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH FOR SOFT ROCK AND HARD ROCK (BY MANUAL CHISELING OR BY MECHANICAL MEANS BUT WITHOUT BLASTING) FOR FOUNDATIONS, SEPTIC TANK, SOAK PIT, RAMP ETC., AS DIRECTED BY BHEL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM	103	2.7329		
3	C3	EARTH WORK IN EXCAVATION FROM 2.0 M TO 4.0 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR FOUNDATIONS, SEPTIC TANK, SOAK PIT, RAMPS ETC., AS DIRECTED BY BHEL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM	7	2.2334		
4	C4	EXCAVATION IN ALL KINDS OF SOIL INCLUDING SOFT & HARD ROCK (BY MANUAL CHISELING OR BY MECHANICAL MEANS BUT WITHOUT BLASTING) FROM 2 M TO 4 M DEPTH FOR SEPTIC TANK AND SOAK PIT, WHEREVER REQUIRED INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50 M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM	27	3.6894		
5	C5	SUB GRADE PREPARATION: CUTTING LEVELLING, FILLING WITH EXCAVATED EARTH, WATERING AND CONSOLIDATION FOR PLINTH PROTECTION AREA BEFORE LAYING THE PCC WITH ALL T&Ps, LABOURS, MATERIALS ETC. COMPLETE.	SQM	193	0.7722		
6	C6	DISPOSAL OF EXCAVATED EARTH / ROCK (NOT SUITABLE FOR BACK FILLING / EXTRA) BEYOND INITIAL LEAD OF 50M AND UPTO A MAXIMUM LEAD OF 2 KM OR PART THEREOF INCLUDING LOADING, UNLOADING, TRANSPORTING AND SPREADING AS PER DIRECTION OF BHEL ENGINEER.	CUM	131	1.2804		
7	C7	BACKFILLING OF FOUNDATION, FLOORS AND PLINTH IN LAYERS NOT EXCEEDING 150 MM THICK. INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.					
8	I	WITH GOOD EXCAVATED SOIL AVAILABLE FROM THE EARTH WORK.	CUM	410	1.1327		
9	II	WITH GRANULAR MURUM IN LAYERS (THICKNESS OF EACH LAYER SHOULD NOT EXCEED 150 MM) BELOW FOUNDATIONS, AND RAMP AS PER STANDARD SPECIFICATION, RELEVANT DRAWINGS AND INSTRUCTED BY BHEL ENGINEER INCLUDING ROYALTY. CONTRACTOR HAS TO SUBMIT ROYALTY CERTIFICATE FROM CONCERNED STATE GOVT. MINING DEPARTMENT.	CUM	53	7.2149		
10	III	WITH GOOD EARTH BROUGHT FROM OUTSIDE FROM CONTRACTOR'S OWN SOURCE INCLUDING ROYALTY ETC.	CUM	22	3.4409		
11	C8	PROVIDING & FILLING IN SOAK PIT WITH BRICK BATS 40-80MM INCLUDING SAND PACKING ETC. COMPLETE, AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.	CUM	9	6.6871		
12	C9	PROVIDING STONE SOLING OF REQUIRED THICKNESS AS PER DRAWING BELOW FLOORING, RAMP OF STORAGE SHED ETC. BY USING 80 MM SIZE HARD BROKEN BLACK GRANITE/ QUARTZITE/ GNEISS/ TRAP STONE METAL INCLUDING GRANULAR MURRUM PACKING, WATERING & COMPACTION ETC COMPLETE. AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER	CUM	278	8.9273		
13	C10	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING PPC CONFIRMING TO IS 1489 (Part-I), 20 MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE FOR FOUNDATION, FLOORING, COLUMN ETC. INCLUDING SHUTTERING, FINISHING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	CUM	142	45.2040		
14	C11	PROVIDING AND LAYING OF 100 MM THICK PLAIN CEMENT CONCRETE OF MIX 1:3:6 USING PPC CONFIRMING TO IS 1489 (Part-I), 20 MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE FOR PLINTH PROTECTION WITH TROWEL FINISH INCLUDING SHUTTERING, FINISHING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	CUM	16	51.6803		
15	C12	PROVIDING AND LAYING OF RCC MIX 1:2:4 USING PPC CONFIRMING TO IS 1489 (Part-I), 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS.	CUM	98	65.3000		

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16	C 13	PROVIDING AND LAYING DPC (DAMP PROOF COURSE) 50MM THICK IN 1:2:4 CEMENT CONCRET LAYER USING PPC CONFIRMING TO IS 1489 (Part-I) AND 6 MM DOWN AGGREGATE, INCLUDING FORMWORK, BITUMEN FELT (WITH BITUMEN OF GRADE OF VG-10 OF APPROVED QUALITY USING 1.7 KG PER SQUARE METRE ON DAMP PROOF COURSE AFTER CLEANING THE SURFACE WITH BRUSHES AND FINALLY WITH A PIECE OF CLOTH LIGHTLY SOAKED IN KEROSENE OIL) USING CEMENT WITH WATER PROOFING COMPOUND ETC. COMPLETE	SQM	68	3.6753		
17	C 14	PROVIDING, CUTTING, BENDING AND FIXING IN POSITION REINFORCEMENT OF VARIOUS DIA. USING HIGH TENSILE TMT STEEL (Fe - 415/500) FOR FOUNDATIONS, COLUMNS, BEAMS, FLOORS, SUNSHED, SLAB ETC. AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER INCLUDING COST OF ALL MATERIALS, LEADS, LIFT, LABOURS, MS BINDING WIRE 18/20 GAUGE, TACK WELDING AND SUPPORTING IF REQUIRED COMPLETE.	MT	10.7	714.7437		
18	C 15	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I), AND LOCALLY AVAILABLE BURNT CLAY BRICKS (CLASS DESIGNATION 7.5) AS PER DRAWING AND SPECIFICATION FOR FOUNDATION, SUPER STRUCTURE, SEPTIC TANK ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING, AT ALL ELEVATIONS AND LEVELS, RAKING OUT JOINTS ETC. COMPLETE AND AS DIRECTED BY ENGINEER. EXCLUDING PLASTERING & PAINTING.	CUM	79	46.5420		
19	C 16	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I) AND FLY ASH LIME BRICKS (CLASS DESIGNATION 7.5) AS PER DRAWING AND SPECIFICATION FOR FOUNDATION, WALL, SEPTIC TANK ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING, AT ALL ELEVATIONS AND LEVELS, RAKING OUT JOINTS ETC. COMPLETE AND AS DIRECTED BY BHEL ENGINEER. EXCLUDING PLASTERING & PAINTING.	CUM	194	49.8898		
20	C 17	PROVIDING HALF BRICK WORK, PARTITION WALL IN CM 1:4 (1 CEMENT & 4 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I) AND LOCALLY AVAILABLE BURNT CLAY BRICKS (CLASS DESIGNATION 7.5) AS PER DRAWING AND SPECIFICATION FOR FOUNDATION, WALL ETC INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, RAKING OUT JOINTS, CURING AS PER DRAWING AND DIRECTED BY BHEL ENGINEER.	SQM	1.9	7.2300		
22	C 19	SUPPLY, FABRICATION AND ERECTION OF STRUCTURAL STEEL BEAMS (ISMB), PLATES, CHANNELS, JOISTS, GUSSET PLATES, BOLTS, NUTS ETC. COMPLETE AS PER DRAWINGS AND AS DIRECTED BHEL ENGINEER FOR ISMB - 200 COLUMNS FOR CLOSED STORAGE SHEDS INCLUDING PROVIDING AND FIXING FOUNDATION BOLTS TO FIX THE COLUMNS TO FOUNDATIONS, ALL MATERIALS, LABOUR, T&Ps ETC., ONE COAT OF PRIMER, FOLLOWED BY TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE, COLOUR AND TEXTURE FOR FINISHED PRODUCTS AT SITE INCLUDING PREPARATION OF DESIGN & DETAILED FABRICATION DRAWINGS AND GETTING APPROVED FROM BHEL COMPLETE AS PER IS CODES, SPECIFICATIONS AND DIRECTION OF BHEL ENGINEER.	MT	0.5	745.9893		
23	C 20	ERECTION, FIXING AND ALIGNMENT OF ISMB-200 COLUMNS FOR CLOSED STORAGE SHEDS. RATE SHALL BE INCLUSIVE OF ISSUING THESE COLUMNS FROM BHEL STROES / YRAD, LOADING & UNLOADING, TRANSPORTATION (AT SITE), FABRICATION (IF ANY), PROVIDING & FIXING IN POSITION WITH HOLDING DOWN BOLTS, LABOUR, T&Ps, CLEANING / SCRAPPING THE COLUMNS TO RECIEVE THE FRESH PRIPMER / PAINT, AND COST OF RED OXIDE PRIMER AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED MAKE, COLOUR AND QUALITY AT SITE, AS PER SPECIFIATIONS, STANDARDS AND AS DIRECTED BY BHEL ENGINEER. NOTE: STRUTURAL STEEL COLUMNS SHALL BE PROVIDED BY BHEL AS FREE OF COST (FOC) ITEM. COLUMNS SHALL BE THOROUGHLY CLEANED, STRAIGHTENED AND RECTIFIED AS PER SITE REQUIREMENT AND AS DIRECTED BY BHEL ENGINEER.	MT	7.42	104.7247		
24	C 21	ERECTION, FIXING, JOINTING AND ALIGNMENT OF TUBULAR TRUSSES (BY USING CLASS B, MEDIUM QUALITY PIPE) AS PER BHEL APPROVED DRAWING WITH WIND TIES (USING FLAT OF SIZE 40X5MM) TO BE PROVIDED ABOVE SHEETS AND PROVIDING & FIXING BASE PLATES WITH HOLDING DOWN BOLTS ON ISMB COLUMNS, GUSSETS, RIBS, PINS, SPLICES ETC. AS REQUIRED INCLUDING TRANSPORT, LOADING, UNLOADING FROM FABRICATION YARD / STORE TO SITE ETC. COMPLETE. RATE IS INCLUSIVE OF ALL MATERIALS, LOADING & UNLOADING, FABRICATION, FIXING IN POSITION, LABOUR, T&Ps AND COST OF RED OXIDE PRIMER AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED MAKE, COLOUR AND QUALITY AT SITE. NOTE: TRUSSES SHALL BE ISSUED BY BHEL AS FREE OF COST (FOC) ITEM.THE TRUSSES SHALL BE THOROUGHLY CLEANED, STRAIGHTENED AND SURFACE PREPARED FOR RECEIVING THE FRESH PRIMER / PAINT. THUS PREPARED TRUSSES SHALL BE THOROUGHLY CHECKED FOR THEIR CORRECTNESS AND RECTIFIED AS REQUIRED AND AS DIRECTED BY BHEL ENGINEER BEFORE ERECTION.	MT	13.5	106.9566		
25	C22	DESIGN, SUPPLY, FABRICATING AND ERECTION OF TUBULAR TRUSSES (BY USING CLASS B, MEDIUM QUALITY PIPE) AS PER APPROVED DRAWING WITH WIND TIES (USING FLAT OF SIZE 40X5MM) TO BE PROVIDED ABOVE SHEETS AND PROVIDING & FIXING BASE PLATES WITH HOLDING DOWN BOLTS ON ISMB COLUMNS, GUSSETS, RIBS, PINS, SPLICES ETC. AS REQUIRED INCLUDING TRANSPORT, LOADING, UNLOADING CHARGES FROM FABRICATION YARD TO SITE ETC. COMPLETE. RATE IS INCLUSIVE OF ALL MATERIALS, LOADING & UNLOADING, FABRICATION, FIXING IN POSITION, LABOUR CHARGES, T&Ps AND COST OF RED OXIDE PRIMER AT FABRICATION YARD AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED COLOUR AND QUALITY AT SITE, PREPARATION OF DETAILED DESIGN & FABRICATION DRAWINGS AND GETTING APPROVED FROM BHEL ETC. COMPLETE AS PER DIRECTIONS OF BHEL ENGINEER.	MT	1.36	821.8715		

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26	C 23	ERECTION AND FIXING THE SIDE RUNNERS OF MS PIPES INCLUDING PROVIDING AND FIXING THE CLEATS, BOLTS, NUTS & WASHERS ETC. RATE IS INCLUSIVE OF ALL MATERIALS, LOADING & UNLOADING, FABRICATION, FIXING IN POSITION, LABOUR CHARGES, T&Ps AND COST OF RED OXIDE PRIMER AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED MAKE COLOUR AND QUALITY AT SITE. NOTE: SIDE RUNNERS (MS PIPES) SHALL BE PROVIDED BY BHEL AS FREE OF COST (FOC) ITEM. PIPES SHALL BE THOROUGHLY CLEANED, STRAIGHTENED AND RECTIFIED AS PER SITE REQUIREMENT AND AS DIRECTED BY BHEL ENGINEER.	MT	3.24	104.7247		
27	C 24	PROVIDING AND FIXING 0.5MM THICK PPGI SHEETS OVER THE ROOF OF SHED AND FOR SIDE CLADDING AS PER BHEL DRAWING INCLUDING FIXING FALSHING, RIDGES, HIPS, GALVANISED IRON J OR L HOOK, BOLTS, SELF TAPING SCREWS WITH EPDM SEAL, BITUMINOUS WASHERS, GI CRAMP BOLTS, NUTS, SCAFFOLDING ETC. COMPLETE, ALL AS PER LATEST IS 459, 3307 AND 730 COMPLETE AS PER DIRECTIONS OF BHEL ENGINEER.	SQM	1678	6.1145		
28	C 25	PROVIDING AND FIXING OF TRANSLUCENT UV STABILISED RMP/FRP (FIBRE GLASS REINFORCED PLASTIC) SHEETS - 2.00 MM THICK OF APPROVED MAKE INCLUDING COST OF GI J OR L HOOKS, BOLTS, SCREWS, NUTS, WASHERS, BITUMEN WASHERS, SCAFFOLDING ETC. COMPLETE SO AS TO MATCH WITH PPGI SHEETS FOR NATURAL LIGHTING.	SQM	81	9.4853		
29	C 26	PROVIDING AND FIXING OF FALSE CEILING OF 12.5 MM THICK TAPERED EDGE GYPSUM PLAIN BOARD CONFIRMING TO IS:2095 PART I WITH 4MM THICK PANELS OF APPROVED QUALITY AND DESIGN OF SIZE 600x600 MM 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 TWO COATS OF APPROVED OBD ON GYPSUM BOARD, SUPPLY & FIXING OF ALUMINIUM FRAME AND SCAFFOLDING ETC. COMPLETE.	SQM	92	8.9809		
30	C 27	PROVIDING AND FIXING OF BEST QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95MM X 70MM AND 38/40 MM 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 & COLOR OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	SQM	9	26.6324		
31	C 28	PROVIDING AND FIXING OF BEST QUALITY PVC PANELLED DOORS OF THICKNESS 29MM , SINTEX/BAJAJ MAKE OR APPROVED EQUIVALENT FOR TOILETS INCLUDING ALL FITTINGS AND FIXTURES, MS ANGLE FRAME OF SIZE 40 X 40 X 6 MM ETC. INCLUDING PRIMER, PAINTING ALL COMPLETE AS PER DRAWINGS AND SPECIFICATIONS.	SQM	2	44.9156		
32	C 29	PROVIDING AND FIXING OF 18 GAUGE M.S. SHEET DOOR WITH FRAME WORK 40 X 40 X 6 MM M.S. ANGLE INCLUDING LOCKING ARRANGEMENTS, HOLD FAST, APPLYING ANTICORROSSIVE PRIMER COAT OF RED LEAD PAINT AND 2 COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR COMPLETE AS DIRECTED BY BHEL ENGINEER.	SQM	3	32.8302		
33	C 30	SUPPLYING, MANUFACTURING 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.					
34	A	STEEL WINDOWS	SQM	14	9.3826		
35	B	STEEL LOUVERED VENTILATORS	SQM	2	9.3826		
36	C31	PROVIDING AND FIXING OF IPS FLOORING 40MM THICK USING PPC CONFIRMING TO IS 1489 (Part-I) WITH CEMENT CONCRETE 1:2:4 (USING 12 MM DOWN AGGREGATES) AS PER STANDARD PRACTICE IN PANELS OF SIZE NOT EXCEEDING 2.0 x 2.0 SQ.M BY PROVIDING, FIXING GLASS STRIPS. INCLUDING CURING & CLEANING ETC. COMPLETE	SQM	949	3.1296		
37	C 32	PROVIDING 2MM THICK NEAT CEMENT FINISH USING PPC CONFIRMING TO IS 1489 (Part-I) OVER CONCRETE BASE FOR FLOORING, PAVING, PLASTERED SURFACE ETC. INCLUDING CURING & CLEANING AND SCAFFOLDING COMPLETE.	SQM	1037	0.4056		
38	C 33	PROVIDING AND LAYING OF 5.5 MM THICK CERAMIC TILES OF APPROVED MAKE CONFIRMING TO IS: 15622 , REQUIRED SIZE IN COLOURS WHITE, IVORY, GREY, FUME RED BROWN, LAID OVER THE BED OF CM - 1:4 (1 CEMENT & 4 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I) INCLUDING POINTTING THE JOINTS WITH WHITE CEMENT AND MATCHING PIGMENT ETC. COMPLETE. TILES FROM REPUTED MANUFACTURER LIKE JONSON OR EQUIVALENT INCLUDING ALL MATERIALS COMPLETE AS PER STANDARD PRACTICE AND SPECIFICATION.					
39	I	(I) FLOORING - 300MM X 300MM	SQM	63	9.1739		
40	II	(II) SKIRTING - 300MM X 150MM	SQM	5	9.7319		

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41	C 34	SUPPLYING AND FIXING OF WHITE GLAZED TILES OF REQUIRED SIZES LAID OVER THE BED OF CM - 1:4 (1 CEMENT & 4 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I). DADO IN TOILET & PANTRY ROOM UP TO 1.5 M ELEVATIONS INCLUDING PEREPARATION OF BASE LAYING UNDERBED, FINISHING AND ROUNDING CORNERS AND JUNCTIONS, CURING ETC. COMPLETE AS PER DRAWINGS AND SPECIFICATIONS.					
42	I	(I) FLOORING (5.0MM TO 6.0MM THICK OF SIZE 300MM X 300MM)	M2	26	9.1739		
43	II	(II) DADO (5MM TO 6MM THICK OF SIZE 150MM X 150MM) - 1.5M HEIGHT FROM FINISHED FLOOR LEVEL	M2	32	9.7319		
44	C 35	PROVIDING PLASTERING WITH CEMENT MORTAR -1:6 (1 CEMENT & 6 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I) OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. AT ALL LEVELS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.					
45	I	(i) EXTERNAL PLASTERING - 18MM THICK	M2	777	2.2073		
46	II	(ii) INTERNAL PLASTERING -12MM THICK	M2	1203	1.4937		
47	C 36	PROVIDING & APPLYING COLOUR WASH -THREE COATS ON NEWLY PLASTERED EXTERNAL SURFACE OF SHED BY USING BEST SHALE LIME TO GIVE AN EVEN SHADE INCLUDING PREPARING THE SURFACE LIKE CLEANING AND BRUSHING & BROOMING OF WALLS AND IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE INCLUDE COST OF ALL MATERIALS , COLOURING AGENT, BASE COAT OF WHITE WASH, APPROVED ADDESSIVE, SCAFFOLDING AT ALL LEVEL, BRUSH ETC. COMPLETE.	M2	777	0.2204		
48	C 37	PROVIDING & APPLYING WHITE WASH - THREE COATS ON NEWLY PLASTERED INTERNAL SURFACE OF SHED (EXCLUDING INNER WALLS OF OFFICE/C&I ROOM) BY USING BEST SHALE LIME TO GIVE AN EVEN SHADE INCLUDING PREPARING THE SURFACE LIKE CLEANING AND BRUSHING & BROOMING OF WALLS AND IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE INCLUDE COST OF ALL MATERIALS , APPROVED ADDESSIVE, SCAFFOLDING AT ALL LEVEL, BRUSH ETC. COMPLETE.	M2	887	0.1311		
49	C 38	PROVIDING & APPLYING TO INTERIOR SURFACES OF STORE OFFICE AND C&I ROOM BY TWO COATS OF OIL BOUND DISTEMPER (OBD) OF APPROVED SHADE ,COLOR AND 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 LIKE CLEANING AND BRUSHING & BROOMING OF WALLS , SCAFFOLDING AT ALL LEVEL ETC, COMPLETE. SURFACE PREPARATION SHALL BE DONE BY APPLYING PUTTY/PLASTER OF PARIS (POP) INCLUDING COST OF MATERIAL, LABOUR ETC. COMPLETE.	M2	243	0.8888		
50	C 39	PROVIDING AND FIXING OVER HEAD HYDRAULIC DOOR CLOSER (HEAVY DUTY, HAVING BRAND LOGO WITH ISI, IS : 3564, EMBOSSED ON THE BODY) OF APPROVED BRAND AND SIZE, WITH DOUBLE SPEED ADJUSTMENT ON NECESSARY DOORS WITH NECESSARY ACCEROIES AND SCREWS ETC. COMPLETE AS DIRECTED BY BHEL ENGINEER.	NO.	7	11.4627		
		TOTAL VALUE OF SECTION C					
	SECTION S	SANITARY & WATER SUPPLY WORKS- PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE.					
51	S1	PROVIDING AND FIXING WHITE GLAZED VITREOUS CHINA, HAND WASH BASIN OF 55 CM X 40 CM SIZE INCLUDING COLD WATER PILLER TAP, BRACKETS, STOP TAP, CHROMIUM PLATED BOTTLE TRAP AND NECESSARY PIPE CONNECTIONS INCLUDING UPVC WASTE PIPE AND TRAP UPTO THE OUT SIDE FACE OF THE WALL, MAKING GOOD THE DAMAGED SURFACE, TESTING ETC. COMPLETE.	NO	1	18.9700		
52	S2	PROVIDING AND FIXING EUROPEAN TYPE WHITE GLAZED VITREOUS CHINA W.C. PAN WITH UPVC SEAT AND LID WITH CHROMIUM PLATED BRASS HINGES AND RUBBER BUFFERS INCLUDING UPVC VENT PIPE (APPROX. 2M. HT. WITH COWL) ON THE OUTSIDE FACE OF WALL, 10 LITRE PVC LOW LEVEL FLUSHING CISTERN WITH ALL FITTINGS, PIPE AND STOP COCK, BRACKETS FOR FIXING CISTERN, 32 MM DIA. UPVC FLUSH PIPE WITH FITTINGS AND CLAMPS, 20 MM DIA. UPVC OVERFLOW PIPE, FLOAT VALVES, CUTTING AND MAKING GOOD TO THE WALLS AND FLOORS, TESTING ETC. COMPLETE.	NO	1	35.5949		
53	S3	PROVIDING AND FIXING IN POSITION OF WHITE GLAZED EARTHENWARE FLAT BACK/CORNER TYPE LIPPED FRONT URINALS OF 430X260X350 MM / 340X460X265 MM OF APPROVED MAKE AND QUALITY WITHOUT FLUSHING CISTERN, WITH GI FLUSH PIPE AND SPREADERS WITH BRASS UNIONS, GI CLAMPS, CUTTING OF 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 & FIXING AND ALL OTHER INCIDENTAL CHARGES ETC. COMPLETE.	NO	2	35.4258		
54	S4	PROVIDING AND FIXING IN POSITION OF HIGH CLASS BELGIUM OR SUPERIOR MAKE BEVELLED EDGE MIRROR OF SIZE 450MM X 550MM X 6MM WITH 16 MM DIA & 550 MM LENGTH NICKEL PLATED TOWEL ROD MOUNTED ON 6 MM 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.	NO	1	8.5094		

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55	S5	PROVIDING AND FIXING IN POSITION OF 15 MM DIA CONCUSSION PUSH BUTTON TYPE BRASS/ GUN METAL SELF CLOSING TAP INCLUDING NECESSARY SOCKET, TESTING ETC. COMPLETE FOR URINALS AS PER DIRECTION OF BHEL ENGINEER.	NO	2	4.7739		
56	S6	PROVIDING AND FIXING IN POSITION OF 15 MM DIA NOMINAL SIZE SCREW DOWN TYPE CHROMIUM PLATES BRASS BIB COCKS OF STANDARD TYPE OF APPROVED MAKE AND QUALITY (LEADER MAKE OR EQUIVALENT) AS PER STANDARD SPECIFICATION. RATE INCLUDES JOINTING MATERIALS, SOCKETS, UNION NUT, TESTING, LABOURS FOR CARRYING AND FIXING ETC. COMPLETE	NO	3	5.1165		
57	S7	PROVIDING AND FIXING IN POSITION OF 25 MM DIA GATE VALVE. INCLUDING ALL NECESSARY FITTING & FIXTURE ETC. COMPLETE AS PER STANDARD SPECIFICATION.	NO	1	4.7739		
58	S8	PROVIDING AND FIXING IN POSITION OF 40 MM DIA GATE VALVE. INCLUDING ALL NECESSARY FITTING & FIXTURE ETC. COMPLETE AS PER STANDARD SPECIFICATION.	NO	1	6.5192		
59	S9	PROVIDING AND FIXING IN POSITION OF 15 MM DIA NOMINAL SIZE SCREW DOWN TYPE CHROMIUM PLATED BRASS STOP COCKS OF APPROVED MAKE AND QUALITY (LEADER MAKE OR EQUIVALENT) AS PER STANDARD SPECIFICATION. RATE INCLUDES COST OF JOINTING MATERIALS, SOCKETS, UNION NUT, TESTING, LABOURS FOR CARRYING AND FIXING ETC. COMPLETE	NO	4	2.8997		
60	S10	PROVIDING AND FIXING IN POSITION OF 100MM X 75 MM HCI "NAHANI" TRAP WITH HCI GRATINGS, BENDS, CONNECTING PIECES OF CI PIPE UPTO OUTSIDE FACE OF THE WALL. MAKING GOOD THE DAMAGED SURFACE, TESTING ETC COMPLETE AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVES.	NO	4	7.6552		
61	S11	PROVIDING AND FIXING IN POSITION OF SQUARE MOUTH 150 MM SALT GLAZED STONE WARE GULLY TRAP CLASS SP-1 WITH HCI GRATINGS, BRICK MASONARY CHAMBER WITH WATER TIGHT CI COVER WITH FRAME OF SIZE 300X300 MM (INSIDE) OF APPROVED MAKE (WEIGHT OF COVER TO BE NOT LESS THAN 4.5 KG AND FRAME TO BE NOT LESS THAN 2.7 KG) AND QUALITY AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVE.	NO	2	17.2626		
62	S12	PROVIDING AND LAYING WITH REQUIRED GRADING & LEVELING IN TRENCHES / ON WALLS, MEDIUM GRADE (TYPE) GALVANISED IRON (GI) PIPE HAVING EMBOSSED ISI MARK ON IT, OF REQUIRED DIAMETER WITH SCREWED, SOCKETS, JOINTS, NECESSARY GALVANISED IRON FITTINGS SUCH AS SOCKETS, BACK NUTS, ELBOWS, BENDS, TEES, REDUCERS, ENLARGERS, PLUGS, CLAMPS ETC. INCLUDING ALL NECESSARY EXCAVATION, BACK FILLING, CUTTING AND MAKING GOOD THE WALLS, FIXING WITH CLAMPS, TESTING ETC. COMPLETE.					
63	I	40MM DIA	RM	100	3.6507		
64	II	25MM DIA	RM	50	3.1502		
65	III	20MM DIA	RM	25	2.4718		
66	IV	15MM DIA	RM	20	2.0237		
67	S13	PROVIDING AT WORKING SITE, 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 TARRERD HEMP YARN AND ALL JOINTING MATERIALS COMPLETE AS PER STANDARD SPECIFICATIONS INCLUDING ALL NECESSARY EXCAVATION, BACKFILLING, DISPOSAL OF SURPLUS EARTH, LEAD AND LIFT AS PER SITE CONDITIONS. RATE SHALL INCLUDE COST OF ALL MATERIALS, LABOUR CHARGES AND INCIDENTAL CHARGES ETC. COMPLETE.					
68	A	100 MM DIA STONEWARE PIPELINE (CLASS SP-1) INCLUDING ALL SPECIALS COMPLETE.	RM	50	2.2050		
69	S14	PROVIDING AND FIXING IN POSITION OF PVC OVERHEAD WATER TANK OF SYNTEX OR ANY APPROVED MAKE OF 500 LITRE CAPACITY WITH PROVISION FOR OVERFLOW ARRANGEMENT VALVES, INLET AND OUTLET ETC. COMPLETE. OVERHEAD TANKS SHALL BE PLACED OVER THE ROOF OF REST ROOM.	NO	2	35.1513		
70	S15	CONSTRUCTION OF 230 MM THICK BURNT CLAY / FLY ASH LIME BRICK CHAMBER USING PPC CONFIRMING TO IS 1489 (Part-I) OF THE FOLLOWING DIMENSIONS (INNER DIMENSION) WITH 20MM THICK INTERNAL & EXTERNAL CEMENT PLASTER OF MIX CM 1:5 (1 CEMENT & 5 COARSE SAND), NEAT CEMENT FINISH, TOP CI - COVER AND CONNECTORS FOR SEWER LINES. RATE SHALL BE INCLUSIVE OF ALL NECESSARY EXCAVATION & FILLING, PCC-100 MM THICK OF 1:3:6 FOR BEDDING ON 100MM THICK OVER SIZE SOLING WITH 80 MM METAL ETC. COMPLETE.					
71	I	600X450X450 WITH C.I COVER	NO	2	47.1809		
72	II	900X600X450 WITH C.I COVER	NO	3	61.0498		
73	S16	PROVIDING AND FIXING OF PRECAST 80 MM THICK RCC COVER OF MIX 1:1.5:3 FOR MAN HOLES OF VARIOUS SIZES WITH REINFORCEMENT OF 10 MM DIA BOTH WAY TIED WITH TACK WELDING @ 150 MM C/C WITH 2 HOOKS OF 12 MM DIA BARS ETC. COMPLETE.					
74	I	750MM x 600MM	Nos.	2	13.1232		
75	II	1050MM x 750MM	Nos.	3	24.6059		

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76	S17	PROVIDING AND FIXING PTMT TOWEL RAIL COMPLETE WITH BRACKETS FIXED TO WOODEN CLEATS WITH CP BRASS SCREWS WITH CONCEALED FITTINGS ARRANGEMENT OF APPROVED QUALITY AND COLOUR AS BELOW: 600 MM LONG TOWEL RAIL WITH TOTAL LENGTH OF 645 MM, WIDTH 78 MM AND EFFECTIVE HEIGHT OF 88 MM, WEIGHING NOT LESS THAN 190 GMS	NO.	1	5.0038		
77	S18	PROVIDING AND FIXING PTMT LIQUID SOAP DISPENSER 109 MM WIDE, 125 MM HIGH AND 112 MM DISTANCE FROM WALL OF STANDARD SHAPE WITH BRACKET OF THE SAME MATERIALS WITH SNAP FITTINGS OF APPROVED QUALITY AND COLOUR, WEIGHING NOT LESS THAN 105 GMS	NO.	1	2.0282		
78	S19	PROVIDING & FIXING OF WOODEN FRAME OF SAL WOOD (2.5" THICK & 3.0" WIDE) FOR INSTALLING PORTABLE 1.5T AIR CONDITIONER ON THE WALL OPENING (31"X22") / AS REQUIRED, SO AS TO MAKE A FRAME OF INSIDE CLEAR DIMENSION REQUIRED FOR INSTALLATION OF A.C. WITH COMPLETE FINISHING, PAINTING, HOLD FAST ETC. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR, MAKING GOOD THE DAMAGED SURFACE ETC. COMPLETE. AS DIRECTED BY BHEL ENGINEER.	NOS.	6	14.3273		
79	S20	PROVIDING & FIXING IN POSITION OF CI VENT PIPE OF DIA. 100 MM (APPROX. HT. 3M), CONFIRMING TO IS:1536 IN SEPTIC TANK. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC.	RM	4	11.9704		
80	S21	PROVIDING AND FIXING OF METALLIC DECORATIVE TYPE HEAVY DUTY PELMET ROD FOR DOORS AND WINDOWS. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC. AS APPROVED BY BHEL ENGINEER.	EACH	11	5.5782		
81	S22	PROVIDING AND FIXING OF AQUA-GUARD OR EQUIVALENT WATER PURIFIER (15 Litre), ALONG WITH ALL FITTINGS. RATE TO INCLUDE ALL NECESSARY FITTINGS & FIXTURES, LABOUR ETC. AS APPROVED & DIRECTED BY BHEL ENGINEER.	NOS.	1	160.6981		
82	S23	PROVIDING AND FIXING OF 1 No. STAINLESS STEEL A ISI 304 (18/8), 18"X24" SIZE KITCHEN SINK AS PER IS: 13983 WITH C.I. BRACKETS, ALL FITTINGS LIKE DRAIN PIPE, STOP VALVE, DRAIN PLUG 40 MM DIA ETC. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC. AS APPROVED & DIRECTED BY BHEL ENGINEER.	NOS.	1	47.8817		
83	S24	PROVIDING , SUPPLYING AND FIXING OF 20 GAUGE MS ROLLING SHUTTERS OF SIZE 5 M X 5 M. 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 INCLUDING LOCKING ARRANGEMENT, FIXING, FITTINGS ETC. RATE SHALL BE INCLUSIVE OF ALL THE ABOVE COMPLETE.	M2	52	20.7473		
		TOTAL VALUE OF SECTION S					
		TOTAL VALUE OF SECTION C & SECTION S					
	SECTION E	INTERNAL ELECTRIFICATION FOR CLOSED STORAGE SHEDS, INCLUDING PROVIDING ALL MATERIALS, LABOURS, T&Ps (AS REQUIRED), COMPLYING WITH THE STATUTORY AND LOCAL AUTHORITIES REQUIREMENTS AS APPLICABLE TO MEET THE FUNCTIONAL REQUIREMENTS AND TO FULL SATISFACTION OF BHEL ENGINEER.					
84	E1	SUPPLYING & INSTALLING POWER DISTRIBUTION BOARD COMPLETE WITH: 1) INCOMING MCB TPH 100 AMPS. - 1 NO. 2) OUTGOING MCB TPH 32 AMPS. - 3NOS. 3) RCCB DP 25/20 AMPS. - 2NOS. 4) OUTGOING 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.	Set	2	352.0628		
85	E2	PROVIDING SUITABLE FOUNDATION FOR MOUNTING 415 VOLT AC POWER DISTRIBUTION BOARD AS SPECIFIED ABOVE INCLUDING INSTALLATION & COMMISSIONING OF PANEL ON FOUNDATION.	NO	2	39.7219		
86	E3	WIRING FOR LIGHT POINT/ FAN POINT/ EXHAUST FAN POINT/ CALL BELL POINT/ PLUG POINT (5A) WITH 2.5 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE IN SURFACE / RECESSED MEDIUM CLASS PVC CONDUIT, WITH MODULAR SWITCH, MODULAR PLATE, SUITABLE GI BOX AND EARTHING THE POINT WITH 2.5 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE ETC. AS REQUIRED. (GROUP B)	PER POINT	31	7.5101		
87	E4	WIRING FOR LIGHT/ POWER PLUG/ MCB WITH 2X4 SQ. MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE IN SURFACE/ RECESSED MEDIUM CLASS PVC CONDUIT ALONGWITH 1 NO 4 SQ. MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE FOR LOOP EARTHING AS REQUIRED	RM	85	1.9082		
88	E5	WIRING FOR CIRCUIT/ SUBMAIN WIRING ALONGWITH EARTH WIRE WITH THE FOLLOWING SIZES OF FRLS PVC INSULATED COPPER CONDUCTOR, SINGLE CORE CABLE IN SURFACE/ RECESSED MEDIUM CLASS PVC CONDUIT AS REQUIRED					

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89	I	2 X 6 SQ. MM + 1 X 6 SQ. MM EARTH WIRE	RM	88	2.4104		
90	II	2 X 16 SQ. MM + 1 X 16 SQ. MM EARTH WIRE	RM	64	4.9212		
92	E6	PROVIDING AND INSTALLATION OF PLUG POINT OF 5A SOCKET (ANCHOR OR EQUIV.) OUTLET INCLUDING WIRING TERMINATION. THIS INCLUDES ALL FITTINGS ETC. COMPLETE.	NO	13	4.5864		
93	E7	POVIDING AND INSTALLATION OF PLUG POINT OF 15A SOCKET (ANCHOR OR EQUIV.) OUTLET INCLUDING WIRING TERMINATION. THIS INCLUDES FITTINGS ETC. COMPLETE.	NO	7	4.5864		
94	E8	PROVIDING AND FIXING ORDINARY TUBELIGHT WITH FRAME OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL. THIS INCLUDES TUBE LIGHT FITTINGS ETC. COMPLETE.	NO.	10	3.7514		
95	E9	PROVIDING AND FIXING EXHAUST FANS 12" DIAMETER WITH FRAME OF STANDARD MANUFACTURER LIKE CROMPTAN GREEVES OR EQUIVALENT AS APPROVED BY BHEL.	NO.	2	20.1520		
96	E10	PROVIDING AND FIXING HEAVY DUTY PLUG POINT 15 AMPS (ANCHOR MAKE OR EQUIV.) WITH ONE SWITCH FOR COMPUTER ,ONE FOR AC CONNECTION WITH BOARD ETC COMPLETE.	NO.	6	4.5864		
97	E11	PROVIDING AND FIXING METAL CLAD PLUG AND MCB OF 30AMPS. (CROMPTON/MDS MAKE) FOR AIR CONDITIONER WITH BOARD ETC COMPLETE.	NO.	4	9.4853		
98	E12	PROVIDING AND FIXING CEILING FAN 48" DIAMETER OF APPROVED COMPANY SUCH AS CROMPTON GREEVES OR ANY OTHER MANUFACTURER AS APPROVED BY BHEL. THIS INCLUDES TUBE LIGHT FITTINGS ETC. COMPLETE.	NO	4	15.0902		
99	E13	PROVIDING AND FIXING CALLING BELLS (WITH INDICATOR LIGHT), BELL PUSH OF APPROVED MAKE I.E. PHILLIPS/ ANCHOR OR EQUIVALENT ICLUDING WIRING, CONDUITING ETC. COMPLETE.	NO	2	6.0817		
100	E14	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.	NO	3	41.8803		
101	E15	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.	NOS.	50	5.0406		
102	E16	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	PER POINT	50	7.5101		
103	E17	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.	Sets.	2	202.1857		
104	E18	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)	RM	100	6.5623		
105	E19	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 LUGS, PROVIDING SAND LAYER BELOW& ABOVE THE CABLE, BRICK LAYING BOTH SIDE & ABOVE THE CABLE AND BACK FILLING ETC. CABLES ARE TO BE LAID FROM TRANSFORMER SUB STATION TO 415 VOLT AC DISTRIBUTION BOARD.	RM	100	2.1760		
106	E20	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)	RM	80	4.2798		
107	E21	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 CABLE AND BACK FILLING ETC. COMPLETE. CABLES ARE TO BE LAID FROM 415 VOLT AC DISTRIBUTION BOARD TO FEEDER PILLAR BOARD / WALL MOUNTING PANEL.	RM	80	2.0979		
108	E22	SUPPLY OF CABLES 3 -1/2 COREX 35 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 (PART -I)	RM	120	1.9867		

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109	E23	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 CABLE AND BACK FILLING ETC.	RM	120	2.0198		
110	E24	SUPPLY OF CABLES 2 CORE X 10 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 (PART -I)	RM	200	0.8137		
111	E25	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 (MINIMUM) 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 CABLE AND BACK FILLING ETC COMPLETE.	RM	200	2.0198		
		TOTAL VALUE OF SECTION-E					
		TOTAL (SECTION C + SECTION S + SECTION E)					
	SECTION Y	DEVELOPMENT OF OPEN STORAGE YARD OF AREA 3500 SQM. WITH INTERNAL ROADS, MONSOON YARD, DRAINAGE AND FENCING					
112	Y1	SUB GRADE PREPARATION: CUTTING & DISPOSAL OF GRASS, VEGETATIONS, BUSHES, TREES (GIRTH LESS 300MM), LEVELLING, WATERING AND CONSOLIDATION (90% OF PROCTOR DENSITY) BY MEANS OF 10-12 MT CAPACITY POWER/VIBRO ROLLER FOR SUB BASE PREPARATION. THIS WILL INCLUDE AVERAGE CUTTING & FILLING UP TO ± 250MM THICK, GRADING THE AREA WITH PROPER SLOPE FOR DRANING OUT THE RAIN WATER WITH ALL T&P, LABOURS, MATERIALS, DEWATERING (IF REQUIRED) ETC. COMPLETE. FOR DEVELOPMENT OF OPEN STORAGE YARD.	M2	3500	0.1902		
113	Y2	BACK FILLING IN LAYERS NOT EXCEEDING 15 CM THICKNESS FOR LOW LYING AREA OF OPEN STORAGE YARD WHEREVER REQUIRED TO BE DEVELOPED INCLUDING WATERING AND CONSOLIDATING, ROYALTY ETC. COMPLETE AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.					
114	I	WITH GOOD AVAILABLE EARTH FROM EXCAVATION WORK	M3	318.4	1.1307		
115	Y3	EXCAVATION /CUTTING OF EARTH BEYOND INITIAL 250MM THICK WHICH IS COVERED UNDER ITEM NO.(Y1) ABOVE IF REQUIRED AND SPREADING THE SAME IN LOW LYING AREA, WATERING, COMPACTION BY MEANS OF 10-12 MT CAPACITY POWER/VIBRO ROLLER FOR DEVELOPMENT OF OPEN STORAGE YARD AS PER INSTRUCTION OF BHEL ENGINEER.	M3	8.75	0.4967		
116	Y4	EXCAVATION FOR ROADWAY IN ALL TYPES OF SOILS, SAND AND GRAVEL OR SOFT MURAM INCLUDING DRESSING OF SECTION TO THE REQUIRED GRADE, CAMBER & SIDE SLOPES AND SPREADING OF SURPLUS EXCAVATED EARTH UNIFORMLY OVER THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT OF REQUIRED DEPTH TO MAINTAIN UNIFORM GROUND LEVEL AS DIRECTED BY THE BHEL & CONSOLIDATION OF THE SURFACE INCLUDING SUB- BASE BY ROLLING THE SURFACE WITH 8 - 10 MT CAPACITY POWER/VIBRO ROLLER, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE AS PER DRAWINGS & SPECIFICATIONS.	M3	471	1.6379		
117	Y5	EXCAVATION FOR SIDE DRAIN/DRAINS AND CULVERTS IN ALL KINDS OF SOILS, TO THE SPECIFIED SECTION AS PER DRAWINGS & SPECIFICATIONS. INCLUDING SPREADING OF SURPLUS EXCAVATED EARTH UNIFORMLY OVER THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT OF REQUIRED DEPTH TO MAINTAIN UNIFORM GROUND LEVEL, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE. DIRECTED BY THE BHEL ENGINEER.					
118	I	IN ORDINARY SOIL	M3	200	1.6485		
119	Y6	BACK FILLING THE SIDES OF DRAINS, CULVERTS WITH GOOD EXCAVATED SOIL AVAILABLE FROM WORK IN LAYERS NOT EXCEEDING 15 CM THICKNESS INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.	M3	34.2	1.1307		
120	Y7	DISPOSAL OF EXCAVATED EARTH/ROCK (NOT SUITABLE FOR BACK FILLING) UPTO A MAXIMUM LEAD OF 2 KM OR PART THEREOF INCLUDING LOADING,UNLOADING ,CONVEYING AND SPREADING AS PER DIRECTION OF ENGINEER INCHARGE.AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.	M3	318.4	1.2787		
121	Y8	PROVIDING & FILLING OF COMPACTED THICK GRANULAR MURUM IN LAYERS (THICKNESS OF EACH LAYER SHOULD NOT EXCEED 150MM) IN SUB-BASE OF ROAD BELOW SOLING, YARD DEVELOPMENT ETC.COMPLETE INCLUDING WATERING AND COMPACTION WITH 8-10 T POWER ROLLER COMPLETE. RATE SHALL INCLUDE TRANSPORTATION, ROYALTY, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE ETC.	M3	332.6	7.2175		

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122	Y9	PROVIDING COMPACTED THICK WATER BOUND MACADAM (WBM) IN TWO LAYERS OF EACH 75 MM, 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).	M3	271.9	18.3027		
123	Y10	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING 20MM & DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATES FOR DRAINS, CULVERTS ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	M3	32	45.8307		
124	Y11	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I), WITH LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 75 KG/CM2) AS PER DRAWING AND SPECIFICATION FOR DRAINS, CULVERTS AND WHERE REQUIRED INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING, AT ALL ELEVATIONS AND LEVELS, RAKING OUT JOINTS ETC. COMPLETE AND AS DIRECTED BY ENGINEER.	M3	8.75	46.5387		
125	Y12	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING PPC CONFIRMING TO IS 1489 (Part-I), WITH FLY ASH LIME BRICKS (FAL - MIN STRENGTH 75 KG/CM2) AS PER DRAWING AND SPECIFICATION FOR DRAINS, CULVERTS AND WHERE REQUIRED INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING, AT ALL ELEVATIONS AND LEVELS, RAKING OUT JOINTS ETC. COMPLETE AND AS DIRECTED BY ENGINEER.	M3	26.25	49.8886		
126	Y13	PROVIDING AND PLASTERING WITH CEMENT MORTAR 1:6 (12MM THICK) OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES ETC. OF ALL HEIGHTS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.	M2	420	1.4900		
127	Y14	40MM THICK COPING OVER THE DRAIN WALL TOP USING MIX - 1:2:4	M3	4	57.0004		
128	Y15	PROVIDING 2 MM THICK NEAT CEMENT FINISH OVER CONCRETE BASE FOR FLOORING PAVING AND INTERNAL SURFACE OF BRICK DRAINS ETC.	M2	420	0.4016		
129	Y16	PROVIDING & FIXING OF WEEP HOLES WITH 75MM DIA. AC PIPES AT 3M C/C ON BOTH SIDES OF DRAIN WALL WITH FILTER MEDIA USING 40MM SIZE STONE GRIT OF SIZE (300X300X300MM).	RM	69	2.9166		
130	Y17	PROVIDING AND FIXING BARBED WIRE FENCING AROUND OPEN STORAGE YARD AS PER BHEL DRAWING. 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, 02 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.	RM	598.5	5.3894		
131	Y18	REMOVAL OF WILD GROWTH, BUSHES VEGETATIONS AND DISPOSAL AS PER INSTRUCTION WITHIN THE PLANT BOUNDARY (SIZE OF STEM FROM 150MM TO 600MM DIA.)	NOS	10	1.9867		
132	Y19	SUPPLY FABRICATION, AND FIXING IN POSITION OF MS GATES WITH STRUCTURAL/TUBULAR STEEL FRAMES AS PER BHEL DRAWING 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.	MT	3	821.8673		
133	Y20	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.					
134	A	40MM DIA GI PIPE LINE WITH ALL SPECIALS	RM	52	3.6457		
135	B	25MM DIA GI PIPE LINE WITH ALL SPECIALS	RM	15.6	2.6630		

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136	Y21	PROVIDING PRECAST REINFORCED CONCRETE SLEEPER OF SIZE 300MM WIDE X150MM DEPTH X1200MM LENGTH USING 1:2:4 CONCRETE MIX INCLUDING MOULDING AND REINFORCEMENT (2-10 MM DIA T&B AND 8 MM STIRRUPS @ C/C 250MM).	EACH	100	7.9889		
		TOTAL VALUE OF SECTION-Y IN Rs.					
		TOTAL (SECTION C + SECTION S + SECTION E + SECTION Y)					
	YE	ILLUMINATION OF OPEN STORAGE YARD- 3500 SQM					
137	YE1	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 THICHNNNESS 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	995.1617		

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138	YE2	PROVIDING SUITABLE FOUNDATION FOR MOUNTING AC DISTRIBUTION BOARD AS SPECIFIED IN ITEM NO. YE1, INSTALLATION & COMMISSIONING OF PANEL.	NO	1	61.5021		
139	YE3	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 EXCAVATION, 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 : 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 15MM 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 REQUIRED 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 .	NOS.	5	109.4252		
140	YE4	SUPPLY, INSTALLATION & COMMISSIONING OF WEATHER PROOF FLOOD LIGHT LUMINIARIES 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 LUMINIARIES AND MOUNTING FIXTURE WITH HARDWARE FOR MOUNTING OF LIGHT LUMINIARIES AND CONTROL GEAR BOX ON POLE TYPE 410 SP-28.	NOS.	5	53.1539		
141	YE5	SUPPLY OF CABLES 3 -1/2 COREX 185 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 (PART -I)	RM	300	6.5623		
142	YE6	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.	RM	300	2.1769		
143	YE7	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) (TO BE USED FORM SHEDS AS WELL AS OPEN STORAGE YARD WHEREVER REQUIRED)	RM	51	4.2798		
144	YE8	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 .	RM	51	2.1029		
145	YE9	SUPPLY OF CABLES 3 -1/2 COREX 35 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 (PART -I)	RM	51	1.9867		
146	YE10	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 FEEDER PILLER TO HIGH MAST TOWER	RM	51	2.0184		
147	YE11	SUPPLY OF CABLES 2 CORE X 10 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 (PART -I)	RM	100	0.8137		
148	YE12	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 TO LIGHTING POLES & POLE TO POLE	RM	100	2.0184		

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149	YE13	SUPPLY AND INSTALLATION SUITABLE ELECTRICAL PUMP FOR MINIMUM HEAD OF 10M (BUT NOT LESS THAN 2 H.P.) OF REPUTED MANUFACTURER LIKE SUGUNA/ CRI/ KILOSKAR/ SHAKTI/SHARP/ CROMPTON INCLUDING ALL ACCESSORIES, STARTER, D.B., ETC. AND TO BE CONNECTED TO OVER HEAD TANK FROM WATER STORAGE TANK BELOW G.L. GARRANTY/WARRANTY CARD TO BE SUBMITTED TO BHEL. SUCTION, DISCHARGE GI PIPES SHALL BE PAID SEPERATLY UNDER RELEVANT ITEMS.	NO	1	163.2449		
		TOTAL VALUE OF SECTION-YE IN Rs.					
		GRAND TOTAL (SECTION C + SECTION S + SECTION E + SECTION Y+ SECTION YE)					

NOTES:

1	Bidder's quoted price above shall be complete in all respect for the full scope defined in specification and in accordance with all terms & conditions of tender.
2	Contractor shall fully understand description and Specifications of items mentioned in BOQ.
3	Conditional price bids with any deviation / clarification etc are liable to be rejected. No cutting / erasing / over writing shall be done.
4	Quantities mentioned in rate schedules are approximate only and liable for variation on either side depending upon site / design requirement. The tentative contract value (CV) of entire scope of work shall be calculated as per finally quoted / accepted rates & the Quantities indicated in BOQ cum Rate Schedule .
5	Contractor's total quoted price as per rate schedule will be taken as tentative only. The contractor undertakes to execute actual quantities as per advice of BHEL Engineer and accordingly the final contract price shall be worked out on the basis of quantities actually executed at site and payments will also be regulated for the same.
6	In case of any mis-match in rate and amount on price discrepancy, the same will be dealt as per clause no. 1.4 of GCC.
7	Evaluation of bids shall be done on Lumpsum price ('A') against this Rate Schedule.