
TENDER SPECIFICATION

TENDER NO. BHEL/NR/SCT/UNCHAHAR-IV/ENABLING WORKS/949

FOR

“Repairing and Remoulding of Existing BHEL office (approx. size 750 SQM), Existing Closed Storage Sheds-06 nos. (approx. size 900 SQM each), Construction and Development of New Open Storage Yard (approx. area 50000 SQM) and New Approach Roads (WBM Roads: approx. 1600 SQM) around Boiler area for 1X500 MW FGUTPP (Stage-IV) at Unchahar, Distt. Rae Bareli, U.P., India.”

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 (INDIA)



**ISO 9001, ISO 14001,
OHSAS 18001 & SA 8000
certified company
Sub Contract Deptt.**

Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
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THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

BOQ CUM RATE SCHEDULE

SCOPE: Repairing and Remoulding of Existing BHEL Office (Approx. Size 750 SQM), Existing Closed Storage Sheds-06 Nos. (Approx. Size 900 SQM Each), Construction and Development of New Open Storage Yard (Approx. Area 50000 SQM) & New Approach Roads (WBM Roads: Approx. 1600 SQM) around Boiler Area for 1 x 500 MW FGUTPP (Stage-IV) at Unchahar, District Raebareli, Uttar Pradesh, India

PART 1: Construction and Development of New Open Storage Yard (Approx. Area 50000 SQM) & New Approach Roads (WBM Roads: Approx. 1600 SQM) around Boiler Area, Providing and Installing New Office Furniture, Furnishing, including Air Conditioners

SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
BOQ CUM RATE SCHEDULE, SECTION - A							
NAME OF WORK- CIVIL WORKS FOR CONSTRUCTION AND DEVELOPMENT OF NEW OPEN STORAGE YARD (Approx. 50,000 SQM) & NEW APPROACH ROADS (WBM RADS: Approx. 1600 SQM) FOR 1X500 MW FGUTPP UNCHAHAR							
Sec. A	1	C1	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 DRAINING OUT THE RAIN WATER WITH ALL T&P, LABOURS, MATERIALS, DEWATERING (IF REQUIRED) ETC. COMPLETE. FOR DEVELOPMENT OF OPEN STORAGE YARD.	SQM	50000		
Sec. A	2	C2	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.				
	3	A	WITH GOOD AVAILABLE EARTH FROM EXCAVATION WORK	CUM	5277		
Sec. A	4	C3	EXCAVATION /CUTTING OF EARTH BEYOND INITIAL 250MM THICK WHICH IS COVERED UNDER ITEM NO.(C1) 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.	CUM	1250		
Sec. A	5	C4	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.	CUM	10968		
Sec. A	6	C5	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.				
Sec. A	7	A	IN ORDINARY SOIL	CUM	1200		
Sec. A	8	C6	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.	CUM	188		
Sec. A	9	C7	DISPOSAL OF EXCAVATED EARTH/ROCK (NOT SUITABLE FOR BACK FILLING) UPTO A MAXIMUM LEAD OF 3 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.	CUM	5277		
Sec. A	10	C8	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	CUM	4773		
Sec. A	11	C9	PROVIDING AND LAYING SOLING 230 MM COMPACTED THICK WITH 150 -200 MM THICK BOULDER SIZE AND FILLING OF VOIDS WITH HAND BROKEN METAL OF SIZE 40-60 MM , SPREADING & PACKING MURRUM , ROLLING AND COMPACTION INCLUDING WATERING, WITH 8 - 10 MT CAPACITY ROAD ROLLER.	CUM	4675		

Sec. A	12	C10	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, MATERIALS ETC. COMPLETE, ALL AS PER RELEVANT SPECIFICATIONS AND DIRECTIONS OF BHEL ENGINEER (RATE SHALL BE INCLUSIVE OF ALL LABOUR, MATERIALS ETC., COMPLETE).	CUM	3395		
Sec. A	13	C11	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING 20MM & DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR DRAINS, CULVERTS ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	CUM	183		
Sec. A	14	C12	PROVIDING AND LAYING OF RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE FOR RCC SLAB OF CULVERT, RCC COPING OVER BRICK WALL OF DRAIN INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER	CUM	33		
Sec. A	15	C13	PROVIDING AND FIXING OF REINFORCEMENT INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL (Fe-415) 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.	MT	3		
Sec. A	16	C14	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC WITH LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 35 KG/CM ²) 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 .	CUM	239		
Sec. A	17	C15	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC WITH FLY ASH LIME BRICKS (FAL - MIN STRENGTH 35 KG/CM ²) 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 .	CUM	159		
Sec. A	18	C16	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.	SQM	2344		
Sec. A	19	C17	40MM THICK COPING OVER THE DRAIN WALL TOP USING MIX - 1:2:4	CUM	23		
Sec. A	20	C18	PROVIDING 2 MM THICK NEAT CEMENT FINISH OVER CONCRETE BASE FOR FLOORING PAVING AND INTERNAL SURFACE OF BRICK DRAINS ETC.	SQM	2344		
Sec. A	21	C19	PROVIDING & FIXING OF WEEP HOLES WITH 75MM DIA. uPVC / AC PIPES AT 3M C/C ON BOTH SIDES OF DRAIN WALL WITH FILTER MEDIA USING 40MM SIZE STONE GRIT OF SIZE (300X300X300MM).	RM	280		
Sec. A	22	C20	SUPPLYING & FIXING IN POSITION OF RCC HUME PIPE OF 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..				
Sec. A	23	A	400MM DIA	RM	60		
Sec. A	24	B	600MM DIA	RM	36		
Sec. A	25	C21	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, 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.	RM	875		
Sec. A	26	C22	REMOVAL OF WILD GROWTH, BUSHES VEGETATIONS AND DISPOSAL AS PER INSTRUCTION WITHIN THE PLANT BOUNDARY (SIZE OF STEM FROM 150MM TO 600MM DIA.)	NOS	83		

Sec. A	27	C23	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		
Sec. A	28	C24	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.				
Sec. A	29	A	40MM DIA GI PIPE LINE WITH ALL SPECIALS	RM	83		
Sec. A	30	B	25MM DIA GI PIPE LINE WITH ALL SPECIALS	RM	25		
Sec. A	31	C25	PROVIDING PRECAST REINFORCED CONCRETE SLEEPER OF SIZE 300MM WIDE X150MM DEPTH X1200MM LENGTH USING 1:2:4 CONCRETE MIX INCLUDING PROVIDING AND FIXING OF TRANSPORTATION HOOKS OF 10 MM DIA BARS (2 NOS. TO EACH SLEEPER, MIN. 150 MM CLEAR LENGTH), MOULDING AND REINFORCEMENT (2-10 MM DIA T&B AND 10 MM STIRRUPS @ C/C 250MM).	NOS	2345		
Sec. A	CONSTRUCTION OF RAISED CONCRETE PLATFORM OF 1600 SQM						
Sec. A	32	C26	EARTH WORK EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR RAISED CONCRETE PLATFORM ETC., SPREADING OF SURPLUS EXCAVATED EARTH UNIFORMLY OVER THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT OF REQUIRED DEPTH TO MAINTAIN UNIFORM GROUND LEVEL WITH PROPER COMPACTION AROUND THE RAISED CONCRETE PLATFORM & OTHER AREAS ETC. AS DIRECTED BY BHEL ENGINEER AND INCLUDING DEWATERING WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	CUM	8		
Sec. A	33	C27	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC WITH LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 35 KG/CM ²) 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.	CUM	14		
Sec. A	34	C28	PROVIDING AND LAYING SOLING 250 MM COMPACTED THICK WITH 150 -200 MM THICK BOULDER SIZE AND FILLING OF VOIDS WITH HAND BROKEN METAL OF SIZE 40-60 MM, SPREADING & PACKING MURRUM, ROLLING AND COMPACTION INCLUDING WATERING, WITH 10-12 MT CAPACITY ROAD ROLLER.	CUM	274		
Sec. A	35	C29	PROVIDING AND LAYING OF RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE FOR RCC SLAB OF CULVERT, RCC COPING OVER BRICK WALL OF DRAIN INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER	CUM	119		
Sec. A	36	C30	PROVIDING AND FIXING OF REINFORCEMENT INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL (Fe-415) 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.	MT	6		
			TOTAL VALUE OF SECTION-A IN Rs.				
BOQ CUM RATE SCHEDULE, SECTION - B							
NAME OF WORK- ILLUMINATION OF OPEN STORAGE YARD 50,000 SQM FOR 1X500 MW FGUTPP UNCHA HAR							

Sec. B	37	E1	<p>SUPPLY & INSTALLING 3 PHASE METERING AND POWER DISTRIBUTION BOARD COMPLETE WITH :</p> <p>(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.</p> <p>3 PHASE ELECTRONIC ENERGY METER - BHEL / L&T / GEC MAKE. AMMETER, VOLTMETER AND SELECTOR SWITCHES FOR BOTH - AE AND KAYCEE MAKE.</p> <p>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.</p> <p>PANEL ENCLOSURE SHALL BE MADE OF SHEET METAL THICKNESS 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 ARRANGEMENT AT FOUNDATION, SUITABLE FOR BOTTOM ENTRY OF CABLES.</p>	NOS.	1		
Sec. B	38	E2	<p>PROVIDING SUITABLE FOUNDATION FOR MOUNTING AC DISTRIBUTION BOARD AS SPECIFIED IN SL. NO.1, INSTALLATION & COMMISSIONING OF PANEL</p>	NOS	1		
Sec. B	39	E3	<p>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 THICKNESS 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 ARRANGEMENT AT FOUNDATION .</p>	NOS	3		
Sec. B	40	E4	<p>PROVIDING SUITABLE FOUNDATION FOR MOUNTING 415 VOLT AC POWER FEEDER PILLAR BOARD AS SPECIFIED IN SL. NO.3 , INSTALLATION & COMMISSIONING OF PANEL</p>	NOS	3		
Sec. B	41	E5	<p>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 CODE E6).</p>	NOS	56		
Sec. B	42	E6	<p>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 :</p> <p>I) DRILING 20 MM DIA HOLE AT ABOUT 2.5 MTR FROM GROUND LEVEL FOR WIRE LEADS FROM JUNCTION BOX TO LIGHT FIXTURE .</p> <p>II) DRILING 15MM DIA HOLES AT ABOUT 0.7 AND AT 2.5 MTR FROM GROUND LEVEL AND WELDING 12 MM NUTS FOR USING A 12 MM G.I BOLT FOR FASTENING EARTH CONDUCTERS.</p> <p>III) WELDING REQUIORED HOLES FOR FIXING POLE CAP OF STREET LIGHT BRACKET.</p> <p>IV) WELDING DIAMETRALLY 10 MM M.S. ROUND 30 MM BELOW POLE TOP EDGE FOR CLIPPING WIRE LEADS .</p>	NOS	61		
Sec. B	43	E7	<p>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.</p>	NOS	5		

Sec. B	44	E8	<p>ENGINEERING, SUPPLY AND INSTALLATION OF LATTICE TYPE STRUCTURAL TOWER OF HEIGHT 15M. TOWER SHALL BE FABRICATED IN THREE SECTION OF EQUAL LENGHT OF 5 METER EACH.PREPARATION OF FABRICATION DRAWING & ITS APPROVAL FROM BHEL. BRIEF DETAILS ARE AS GIVEN BELOW :</p> <p>TOWER SHALL BE ADEQUATELY STRONG TO WITHSTAND HEAVY WIND. NO STAY/GUY ROPES SHALL BE TIED WITH IT AT TOP OF THE TOWER. ADEQUATE SIZE OF PLATEFORM SHALL BE PROVIDED WITH RAILING AROUND THE PLATFORM FOR MOUNTING OF LIGHTING LUMINIARIES (TENTATIVELY TWELVE FITTING ON EACH TOWER) AND MAINTENANCE PURPOSE , FLOOR OF PLATFORM SHALL BE COVERED WITH CHEQURED 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.</p> <p>SUPPLY, INSTALLATION & COMMISSIONING OF FLOOD LIGHT LUMINIARIES OF BAJAJ MAKE TYPE BGENF 22 OR EQUIVALENT IN CROMPTON , PHILLIPS ONLY. EACH LUMINIARIES 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).</p>	NOS	2		
Sec. B	45	E9	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	450		
Sec. B	46	E10	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	450		
Sec. B	47	E11	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	722		
Sec. B	48	E12	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	722		

Sec. B	49	E13	SUPPLY OF CABLES 3 -1/2 CORE X 35 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 (PART -I)	RM	541		
Sec. B	50	E14	INSTALLATION OF CABLES 3 -1/2 CORE X 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 FEDDER PILLER TO HIGH MAST TOWER	RM	541		
Sec. B	51	E15	SUPPLY OF CABLES 2 CORE X 10 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 (PART -I)	RM	3070		
Sec. B	52	E16	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 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	3070		
Sec. B	53	E17	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. GURRANTY/WARRANTY CARD TO BE SUBMITTED TO BHEL. SUCTION, DISCHARGE GI PIPES SHALL BE PAID SEPERATLY UNDER RELEVANT ITEMS.	NOS	1		
Sec. B			TOTAL VALUE OF SECTION-B IN Rs.				
BOQ CUM RATE SCHEDULE, SECTION - C							
NAME OF WORK- PROVIDING AND INSTALLING OF NEW OFFICE FURNITURE, FURNISHING INCLUDING PROVIDING AND INSTALLING OF AIR CONDITIONERS.							
Sec. C	FURNITURE AND FURNISHING:						
Sec. C	54	RF1	PREPARATION OF SITTING LAYOUT, PROVIDING AND ERECTING IN POSITION STANDARD AND MODULAR FURNITURE OF GODREJ / DELITE /DURIAN OR EQUIVALENT MAKE (PREFERABLY COMPLETE FURNITURE ITEMS SHALL BE OF A SINGLE MANUFACTURER TO MAINTAIN THE AESTHETIC LOOKS OF OFFICE). BEECHWOOD/TEAKWOOD/MALNUT/MAHOGANY/OAK/MAPLE WOOD, METAL SHADES AND APPROVED UPHOLSTRY SHADES FOR OFFICE SETUP (SEATING LAYOUT SHALL BE PREAPRED BY THE CONTRACTOR AND GET APPROVED FROM BHEL BEFORE INSTALLATION) AS FOLLOWS:				
Sec. C	55	A	OFFICE DESKS:				
Sec. C	56	A1	SUPER EXECUTIVE SUITS INCLUDING 1800X900X750 EXECUTIVE DESK WITH DRAWERS, 1200X600X780 LH/RH SIDE UNIT, 2200X790X400 BOOK CASE UNIT, 400X550X550 MOBILE PEDESTAL, 1400X500X750 CREDENZA AND 1050X1200 CURVED JOINTING TOP- MAESTRO PREMIUM SUITE (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER.	SET	2		
Sec. C	57	A2	SENIOR EXECUTIVE SUITES INCLUDING 1500X750X750 EXECUTIVE DESKS WITH DRAWERS/PEDESTALS, 1000X500X780 SIDE UNIT & CREDENZA 1200X500X750-FINESSE EXECUTIVE SERIES (GODREJ) OR EQUIVALENT, AS APPROVED BY BHEL ENGINEER.	SET	4		
Sec. C	58	A3	EXECUTIVE TABLES:- INCLUDING 1350X700X750 EXECUTIVE DESK WITH DRAWERS/PEDESTALS- ENZO/ WT SERIES (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER.	SET	25		
Sec. C	59	A4	RECEPTION DESK WITH CHAIR-SINGLE ARC CURVILINEAR RUBBER WOOD TOPS 950 MM HIGH APPROX 1200 MM WIDE 700 MM DEPTH, PERFORATED MODESTY PANELS OF APPROVED METAL COLOUR WITH SWIVEL CHAIR WITH ADEQUATE SINGLE OR TWIN WHEEL CASTORS AND WITH TWO ARMS AND PNEUMATIC HEIGHT ADJUSTMENT- AS APPROVED BY BHEL ENGINEER.	SET	1		
Sec. C	60	A5	NORMAL DESKS- 1220X600 AND 750 MM HIGH WITH ATLEAST TWO DRAWERS AND 1 FILE CABINET AS APPROVED BY BHEL ENGINEER.	NOS	12		
Sec. C	61	B	OFFICE CHAIRS:				
Sec. C	62	B1	SUPER EXECUTIVE CHAIRS: CUSHIONED BLACK LEATHER MOBILE SWIVEL CHAIRS WITH ADEQUATE SINGLE OR TWIN WHEEL CASTORS, WITH CENTRE TILT MECHNISM AND TILT LOCKING ARRANGEMENT. THE SEAT AND THE HIGH BACKREST ARE MADE UP OF MOULDED POLYURETHANE FOAM WITH TWO CHROME POLISHED ARMS AND PNEUMATIC HEIGHT ADJUSTMENT- HALO/MONARCH (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER.	NOS	3		

Sec. C	63	B2	PREMIUM EXECUTIVE SWIVEL CHAIRS WITH ADEQUATE SINGLE OR TWIN WHEEL CASTORS WITH CENTRE TILT MECHANISM AND TILT LOCKING ARRANGEMENT. THE SEAT AND BACKREST ARE MADEUP OF MOULDED POLYURETHANE FOAM WITH FABRIC UPHOLSTRY, TWO ARMS AND PNEUMATIC HEIGHT ADJUSTMENT- REGENCY / PREMIUM EXECUTIVE (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER.	NOS	7		
Sec. C	64	B3	VISITOR SWIVEL CHAIRS WITH ADEQUATE SINGLE WHEEL CASTORS, WITH CENTRE TILT MECHANISM AND TILT LOCKING ARRANGEMENT. THE SEAT AND BACKREST ARE MADEUP OF MOULDED POLYURETHANE FOAM WITH FABRIC UPHOLSTRY TWO ARMS AND PNEUMATIC HEIGHT ADJUSTMENT- EII 500IT (GODREJ) OR EQUIVALENTAS APPROVED BY BHEL ENGINEER	NOS	30		
Sec. C	65	B4	VISITOR SWIVEL CHAIRS WITH ADEQUATE SINGLE WHEEL CASTORS, WITH CENTRE TILT MECHANISM AND TILT LOCKING ARRANGEMENT. THE SEAT AND BACKREST ARE MADEUP OF MOULDED POLYURETAHNE FOAM WITH FABRIC UPHOLSTRY, TWO ARMS AND PNEUMATIC HEIGHT ADJUSTMENT- 7031 (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER.	NOS	50		
Sec. C	66	B5	TASK/ MULTIPURPOSE CHAIRS- OFFICE 1018 (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER	NOS	5		
Sec. C	67	C	LONGUE FURNITURE:				
Sec. C	68	C1	SOOFA SETS (3+2+2)-RIVIERA F2324/5 (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER	SET	2		
Sec. C	69	C2	CENTRE TABLES- C538 EX (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER.	SET	2		
Sec. C	70	D	STORAGE UNITS				
Sec. C	71	D1	PLAIN CUPBOARDS- 1800 MM STOREWELL PLAIN, AS APPROVED BY BHEL ENGINEER	NOS	10		
Sec. C	72	D2	VERTICAL FILING CABINETS- 4 DRAWERS, AS APPROVED BY BHEL ENGINEER	NOS	10		
Sec. C	73	D3	LOCKER UNITS- 2 2 DOOR PLU, AS APPROVED BY BHEL ENGINEER	NOS	10		
Sec. C	74	D4	1200 MM HIGH GLASS HINGED DOOR UNITS, AS APPROVED BY BHEL ENGINEER	NOS	10		
Sec. C	75	E	COMPUTER TABLES- COMPANION C10 (GODREJ) OR EQUIVALENT AS APPROVED BY BHEL ENGINEER	NOS	18		
Sec. C	76	F	PROVIDING AND FIXING FOLLOWING TYPES OF WINDOW CURTAINS COMPLETE WITH ALL HOOKS GUIDES RODS & OTHER OPERATING ACCESSORIES				
Sec. C	77	F1	VERTICAL BLINDS OF APPROVED SHADE, MAKE AND PROFILE	SQM	15		
Sec. C	78	F2	ROLLER BLINDS OF APPROVED SHADE, MAKE AND PROFILE	SQM	15		
Sec. C	79	F3	CLOTH CURTAINS OF APPROVED TEXTURE, MATERIAL, PATTERN AND SHADE (ONLY REPUTED BRANDS)- AS DIRECTED BY BHEL ENGINEER.	SQM	40		
Sec. C	80	G	PROVIDING AND INSTALLAING AIR CONDITIONERS OF LG, SAMSUNG, GODREJ, VOLTAS MAKE WITH VOLTAGE STABLIZER OF FOLLOWING TYPES				
Sec. C	81	G1	SPLIT TYPE- 2 T	NOS	13		
Sec. C	82	G2	WINDOW TYPE- 1.5 T	NOS	15		
Sec. C	83	G3	4' DESERT COOLERS WITH MS STAND (ONLY STANDARD BRANDS)- AS DIRECTED BY BHEL ENGINEER	NOS	10		
			TOTAL VALUE OF SECTION-C in Rs.				
			TOTAL VALUE OF PART-1 (Sec. A + Sec. B + Sec. C) in Rs.				

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	84	RC1	REPAIRS TO PLASTER OF THICKNESS 12 MM TO 20 MM IN PATCHES INCLUDING CUTTING THE PATCH IN PROPER SHAPE, RAKING OUT JOINTS AND PREPARING AND PLASTERING THE SURFACE OF THE WALLS COMPLETE, INCLUDING DISPOSAL OF RUBBISH TO THE DUMPING GROUND WITHIN 50 METRES LEAD :				
Sec. D	85	A	WITH CEMENT MORTAR 1:4 (1CEMENT: 4 COARSE SAND)	SQM	5934		
Sec. D	86	RC2	REMOVING WHITE OR COLOUR WASH BY SCRAPPING AND SAND PAPERING AND PREPARING THE SURFACE SMOOTH INCLUDING NECESSARY REPAIRS TO SCRATCHES ETC. COMPLETE				
Sec. D	87	A	OUTSIDE WALLS & INSIDE WALLS	SQM	11408		
Sec. D	88	RC3	FINISHING OUTSIDE WALLS WITH WATER PROOFING CEMENT PAINT OF REQUIRED SHADE:				
Sec. D	89	A	OLD WORK (ONE OR MORE COATS APPLIED @ 2.20 KG/10 SQM) OVER PRIMING COAT OF PRIMER APPLIED @ 0.80 LITRS/10 SQM COMPLETE INCLUDING COST OF PRIMING COAT.	SQM	5150		
Sec. D	90	RC4	DISTEMPERING INSIDE WALLS WITH 1ST QUALITY ACRYLIC WASHABLE DISTEMPER (READY MADE) OF APPROVED MANUFACTURER AND OF REQUIRED SHADE AND COLOUR COMPLETE. AS PER MANUFACTURER'S SPECIFICATION.				
Sec. D	91	A	ONE OR MORE COATS ON OLD WORK	SQM	4500		
Sec. D	92	RC5	PROVIDING & APPLYING TO INTERIOR SURFACES OF OFFICE BUILDING , TOILET AND PANTRY BLOCK 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 PARISH (POP) INCLUDING COST OF MATERIAL, LABOUR ETC. COMPLETE.	SQM	1758		
Sec. D	93	RC6	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC AND LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 35 KG/CM2) 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	96		
Sec. D	94	RC7	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC AND FLY ASH LIME BRICKS (FAL - MIN STRENGTH 35 KG/CM2) 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 ENGINEER . EXCLUDING PLASTERING & PAINTING.	CUM	15		
Sec. D	95	RC8	PROVIDING AND LAYING OF RCC MIX 1:2:4 USING OPC GRADE 43/53 OR EQUIVALENT PPC, 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING AS PER DRAWING AND SPECIFICATION AND DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS.	CUM	30		
Sec. D	96	RC 9	PROVIDING, CUTTING, BENDING AND FIXING IN POSITION REINFORCEMENT OF VARIOUS DIA. USING HIGH TENSILE TOR STEEL (Fe - 415/500) FOR FOUNDATIONS, COLUMNS, BEAMS, FLOORS, SUNSHED, SLAB FOR CLOSED STORAGE SHEDS 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	2		
Sec. D	97	RC10	DESIGN, SUPPLY, FABRICATING AND ERECTION OF STRUCTURAL STEEL STAGING (APPROX. Ht. 4.0M) FOR INSTALLATION OF PVC OVER HEAD WATER TANK (OHT) OF CAPACITY- 1000 LITRES AS PER BHEL DRAWING. RATE IS INCLUSIVE OF ALL MATERIALS, LOADING & UNLOADING, FABRICATION, FIXING IN POSITION, LABOUR CHARGES , T&Ps 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	MT	1		
Sec. D	98	RC11	DISMANTLING BARBED WIRE OR FLEXIBLE WIRE ROPE IN FENCING INCLUDING MAKING ROLLS AND STACKING WITHIN 50 METRES LEAD.	RM	3000		
Sec. D	99	RC12	FENCING WITH ANGLE IRON POST PLACED AT REQUIRED DISTANCE EMBEDDED IN CEMENT CONCRETE BLOCKS, EVERY 15TH POST, LAST BUT ONE END POST AND CORNER POST SHALL BE STRUTTED ON BOTH SIDES AND END POST ON ONE SIDE ONLY AND PROVIDED WITH HORIZONTAL LINES AND TWO DIAGONALS INTERWOVEN WITH HORIZONTAL WIRES. OF BARBED WIRE WEIGHING 9.38 KG PER 100 M (MINIMUM), BETWEEN THE TWO POSTS FITTED AND FIXED WITH G.I. STAPLES, TURN BUCKLES ETC. COMPLETE. (COST OF POSTS, STRUTS, EARTH WORK AND CONCRETE WORK TO BE PAID FOR SEPARATELY). PAYMENT TO BE MADE PER METRE COST OF TOTAL LENGTH OF BARBED WIRE USED. THIS INCLUDES STRAIGHTENING THE EXISITING ANGLE IRON POSTS / STRUTS BY BENDING, CUTTING & REWELDING ETC. AS REQUIRED COMPLETE AS PER DIRECTION OF BHEL ENGINEER IN-CHARGE.				

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	100	A	WITH G.I. BARBED WIRE	RM	3000		
Sec. D	101	RC13	CLEANING OF STRUCTURAL STEEL WORK E.G. FRAME & GRILLS OF WINDOWS AND VENTILATORS, STEEL DOORS, FENCING POSTS ETC.BY SCRAPPING WITH WIRE BRUSHES AND SAND PAPER TO RENDER THE SURFACE CLEAN AND SMOOTH, READY FOR PAINTING & PAINTING WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE INCLUDING INITIAL PRIMER COAT TO GIVE AN EVEN SHADE :				
Sec. D	102	A	ONE OR MORE COATS ON OLD WORK	SQM	687		
Sec. D	103	RC14	DISMANTLING DOORS, WINDOWS AND CLERESTORY WINDOWS (STEEL OR WOOD) SHUTTER INCLUDING CHOWKHATS, ARCHITRAVE, HOLDFASTS ETC. COMPLETE AND STACKING WITHIN 50 METRES LEAD :				
Sec. D	104	A	OF AREA 4 SQM AND BELOW	NOS	12		
Sec. D	105	RC15	PROVIDING 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 &COLOR OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	SQM	65		
Sec. D	106	RC16	PROVIDING AND FIXING OF BEST QUALITY PVC PANELLED DOORS OF THICKNSS 29MM, SINTEX/BAJAJ MAKE OR APPROVED EQUIVALENT FOR TOILETS INCLUDING ALL FITTINGS AND FIXTURES, MS ANGLE FRAME OF SIZE 40x40x6MM ETC. ALL COMPLETE AS PER DRAWINGS AND SPECIFICATIONS.	SQM	2		
Sec. D	107	RC17	PROVIDING & FIXING OF WOODEN FRAME OF BEST QUALITY COUNTRY WOOD (2.5"x3.0") FOR INSTALLING PORTABLE 1.5T AIR CONDITIONER ON THE WALL OPENING (31"x22") INCLUDING BREAKING THE BRICK WORK FOR MAKING OPENING, SO AS TO MAKE A FRAME OF INSIDE CLEAR DIMENSION 26"x17" WITH COMPLETE FINISHING, PAINTING, HOLD FAST ETC. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR, MAKING GOOD THE DAMAGED SURFACE ETC. COMPLETE. AS APPROVED BY BHEL ENGINEER.	NOS	20		
Sec. D	108	RC18	PROVIDING AND FIXING 150 MM BRIGHT FINISHED FLOOR BRASS DOOR STOPPER WITH RUBBER CUSHION, NECESSARY BRASS SCREWS ETC. TO SUIT SHUTTER THICKNESS COMPLETE	NOS	25		
Sec. D	109	RC19	PROVIDING AND FIXING OVER HEAD HYDRAULIC DOOR CLOSER (HEAVY DUTY) OF APPROVED BRAND AND SIZE ON NECESSARY DOORS INCLUDING REMOVING THE EXISTING DAMAGED DOOR CLOUSERS AS DIRECTED BY BHEL ENGINEER.	NOS	20		
Sec. D	110	RC20	RENEWING GLASS PANES, WITH PUTTY AND NAILS WHEREVER NECESSARY INCLUDING RACKING OUT THE OLD PUTTY:				
Sec. D	111	A	FLOAT GLASS PANES OF THICKNESS 4 MM	SQM	45		
Sec. D	112	B	FLOAT GLASS PANES OF THICKNESS 5.5 MM	SQM	10		
Sec. D	113	RC21	PAINTING (ONE OR MORE COATS) ON RAIN WATER, SOIL, WASTE AND VENT PIPES AND FITTINGS WITH BLACK ANTICORROSIVE BITUMASTIC PAINT OF APPROVED BRAND AND MANUFACTURE ON OLD WORK :				
Sec. D	114	A	75 MM DIA PIPES	RM	75		
Sec. D	115	B	100 MM DIA PIPES	RM	25		
Sec. D	116	RC22	CLEANING OF WOOD WORK BY SCRAPPING WITH WIRE BRUSHES AND SAND PAPER AND REPAIRING OF DAMAED SURFACE WITH APPLICATION OF PUTTY TO RENDER THE SURFACE CLEAN AND SMOOTH FOR PAINTING & PAINTING WITH TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED SHADE & COLOR OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.:	SQM	65		
Sec. D	117	RC23	DISMANTLING ALUMINIUM/ GYPSUM PARTITIONS, DOORS, WINDOWS, FIXED GLAZING AND FALSE CEILING INCLUDING DISPOSAL OF UNSERVICEABLE SURPLUS MATERIAL AND STACKING OF SERVICEABLE MATERIAL WITH IN 50 METERS LEAD AS DIRECTED BY ENGINEER-IN-CHARGE.	SQM	450		
Sec. D	118	RC24	DISMANTLING EXISTING DAMAGED HARD BOARD CEILING OR PARTITION WALLS, ROOFING INCLUDING STACKING OF SERVICEABLE MATERIALS AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 50 METRES LEAD.	SQM	1600		
Sec. D	119	RC 25	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	750		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	120	RC26	DILUTING AND INJECTING CHEMICAL EMULSION FOR POST-CONSTRUCTIONAL ANTI-TERMITE TREATMENT (INCLUDING THE COST OF CHEMICAL EMULSION) :				
Sec. D	121	A	TREATMENT OF EXISTING MASONRY USING CHEMICAL EMULSION @ ONE LITRE PER HOLE AT 300 MM INTERVAL INCLUDING DRILLING HOLES AT 45 DEGREE AND PLUGGING THEM WITH CEMENT MORTAR 1:2 (1 CEMENT : 2 COARSE SAND) TO THE FULL DEPTH OF THE HOLE : WITH CHLORPYRIPHOS/LINDANE E.C. 20% WITH 1% CONCENTRATION	RM	150		
Sec. D	122	B	TREATMENT OF SOIL UNDER EXISTING FLOORS USING CHEMICAL EMULSION @ ONE LITRE PER HOLE, 300 MM APART INCLUDING DRILLING 12 MM DIAMETER HOLES AND PLUGGING WITH CEMENT MORTAR 1:2 (1 CEMENT: 2 COARSE SAND) TO MATCH THE EXISTING FLOOR : WITH CHLORPYRIPHOS/LINDANE E.C. 20% WITH 1% CONCENTRATION	SQM	125		
Sec. D	123	RC27	PROVIDING AND FIXING 0.5MM THICK PPGI SHEETS OVER THE ROOF OF CLOSED STORAGE SHEDS & OFFICE TO REPLACE THE EXISTING DAMAGED ROOFING INCLUDING GALVANISED IRON J OR L HOOK, BOLTS, BITUMINOUS WASHERS, GI CRAMP BOLTS, NUTS, SCAFFOLDING ETC. COMPLETE, ALL AS PER LATEST IS 459, 3307 AND 730.	SQM	3350		
Sec. D	124	RC28	PROVIDING AND FIXING OF TRANSLUCENT RMP/FRP (FIBRE GLASS REINFORCED PLASTIC) SHEETS - 2.00 MM THICK OF APPROVED MAKE INCLUDING CUTTING THE PPGI SHEETS/ AC ROOFING IN PROPER SIZE AND SHAPE, COST OF GI J OR L HOOKS, BOLTS, NUTS, WASHERS, BITUMEN WASHERS,SCAFFOLDING ETC. COMPLETE SO AS TO MATCH WITH PPGI SHEETS FOR NATURAL LIGHTING.	SQM	350		
Sec. D	125	RC29	RE-LETTERING WITH BLACK JAPAN PAINT OF APPROVED BRAND AND MANUFACTURE. LETTER HEIGHT SHALL BE AS DIRECTED BY BHEL ENGINEER	PER LETTER	300		
Sec. D	CONSTRUCTION OF RAISED CONCRETE PARKING PLATFORM OF 200 SQM:						
Sec. D	126	RC30	EARTH WORK EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR RAISED CONCRETE PLATFORM ETC., SPREADING OF SURPLUS EXCAVATED EARTH UNIFORMLY OVER THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT OF REQUIRED DEPTH TO MAINTAIN UNIFORM GROUND LEVEL WITH PROPER COMPACTION AROUND THE RAISED CONCRETE PLATFORM & OTHER AREAS ETC. AS DIRECTED BY BHEL ENGINEER AND INCLUDING DEWATERING WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	CUM	1		
Sec. D	127	RC31	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC WITH LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 35 KG/CM ²) 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 .	CUM	2		
Sec. D	128	RC32	PROVIDING AND LAYING SOLING 250 MM COMPACTED THICK WITH 150 -200 MM THICK BOULDER SIZE AND FILLING OF VOIDS WITH HAND BROKEN METAL OF SIZE 40-60 MM , SPREADING & PACKING MURRUM , ROLLING AND COMPACTION INCLUDING WATERING, WITH 10-12 MT CAPACITY ROAD ROLLER.	CUM	34		
Sec. D	129	RC33	PROVIDING AND LAYING OF RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE FOR RCC SLAB OF PLATFORM, CULVERT, RCC COPING OVER BRICK WALL OF DRAIN INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER	CUM	15		
Sec. D	130	RC34	PROVIDING AND FIXING OF REINFORCEMENT INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL (Fe-415) 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.	MT	1		
Sec. D	FLOORING:						
Sec. D	131	RC30	CHIPPING OF EXISTING CC FLOORING TO MAKE IT SUITABLE FOR LAYING CERAMIC TILE FLOORING INCLUDING DISPOSAL OF DEBRIS WITHIN A LEAD OF 50 M	CUM	24		
Sec. D	132	RC31	PROVIDING AND LAYING OF 5.5 MM THICK CERAMIC TILES OF REQUIRED SIZE LAID OVER THE BED OF CM - 1:4 (1 CEMENT & 4 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC.TILES FROM REPUTED MANUFACTURER LIKE JONSON OR EQUIVALENT INCLUDING ALL MATERIALS COMPLETE AS PER STANDARD PRACTICE AND SPECIFICATION.				
Sec. D	133	A	FLOORING -600MM X600MM	SQM	550		
Sec. D	134	B	FLOORING -300MM X300MM	SQM	250		
Sec. D	135	C	SKIRTING - 300MM X 150MM	SQM	45		
Sec. D	136	RC32	SUPPLYING AND FIXING OF WHITE GLAZED TILES OF REQUIRED SIZES LAID OVER THE BED OF CM - 1:4 (1 CEMENT & 4 COARSE SAND) USING OPC GRADE 43/53 OR EQUIVALENT PPC. 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.				
Sec. D	137	A	FLOORING (5.0 MM TO 6.0MM THICK OF SIZE 300MM X 300MM)	SQM	100		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	138	B	DADO (5MM TO 6MM THICK OF SIZE 150MM X 150MM) - 1.5M HEIGHT FROM FINISHED FLOOR LEVEL	SQM	67		
Sec. D	SANITARY WORKS:						
Sec. D	139	RS1	DISMANTLING OF FLUSHING CISTERN / HAND WASH BASIN / URINALS OF ALL TYPES (C.I. /PVC/VITROUS CHINA) INCLUDING STACKING OF USEFUL MATERIALS NEAR THE SITE AND DISPOSAL OF UNSERVICEABLE MATERIALS WITHIN 50 METRES LEAD.	NOS	9		
Sec. D	140	RS2	PROVIDING AND FIXING VITREOUS CHINA TYPE 10 LITRES LOW LEVEL CISTERN WITH COMPLETE FITTINGS INCLUDING MAKING ALL NECESSARY ARRANGEMENTS E.G. PROVIDING AND FIXING ANCHOR BOLTS, HOLD FASTS, MAKING OPENING IN WALLS AND REPAIRING THE DAMAGED WALLS WITH FILLING OF C.C, PLASTERING AND PAINTING COMPLETE AS PER STANDARD SPECIFICATIONS, DIRECTION OF BHEL ENGINEER.	NOS	3		
Sec. D	141	RS3	PROVIDING AND FIXING WHITE GLAZED VITREOUS CHINA WASH HAND 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. PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE.	NOS	3		
Sec. D	142	RS4	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, DISMANTLING AND REMOVING THE EXISTING INDIAN W.C. PAN AND DISPOSING THE UNSERVICABLE MATERIAL WITHIN 50 M LEAD ETC. COMPLETE. PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE	NOS	3		
Sec. D	143	RS5	PROVIDING 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 WITHOUT FLUSHING CISTERN, 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.	NOS	4		
Sec. D	144	RS6	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.	NOS	4		
Sec. D	145	RS7	DISMANTLING OF EXISTING DAMAGED GI PIPES AND FITTINGS AND DISPOSAL OF THE UNSERVICABLE MATERIALS WITHIN 50 M LEAD. PROVIDING & FIXING GI PIPES COMPLETE WITH GI FITTINGS AND CLAMPS INCLUDING MAKING GOOD THE WALLS ETC. CONCEALED PIPE INCLUDING PAINTING WITH ANTI CORROSIVE BITUMASTIC PAINT, CUTTING CHASES AND MAKING GOOD THE WALL. (20 MM DIA NOMINAL BORE.)	RM	25		
Sec. D	146	RS8	REMOVING THE EXISTING DAMAGED KITCHEN SINK AND DISPOING THE UNSERVISABLE MATERIAL WITHIN A LEAD OF 50 M. PROVIDING AND FIXING OF 1 No. 18"X24" SIZE STAINLESS STEEL SINK WITH ALL FITTINGS LIKE DRAIN PIPE, STOP VALVE ETC.RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC.AS APPROVED & DIRECTED BY BHEL ENGINEER.	NOS	1		
Sec. D	147	RS9	PROVIDING AND FIXING C.P. BRASS CHAIN AND RUBBER PLUG COMPLETE FOR SINK OR WASH BASIN :				
Sec. D	148	A	32 MM DIA	NOS	4		
Sec. D	149	B	40 MM DIA	NOS	3		
Sec. D	150	RS10	PROVIDING AND FIXING CHROMIUM PLATED TOWEL ROD 16 MM DIA. AND 75CM. IN LENGTH INCLUDING ALL ACCESSORIES COMPLETE. (PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE).	NOS	4		
Sec. D	151	RS11	PROVIDING & FIXING OF LIQUID SOAP DISPENSER AT ALL WASH BASIN	NOS	4		
Sec. D	152	RS12	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 & 550MM 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.	NOS	3		
Sec. D	153	RS13	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.	RM	15		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	154	RS14	PROVIDING AND FIXING IN POSITION OF 25 MM DIA GATE VALVE.INCLUDING ALL NECESSARY FITTING & FIXTURE ETC. COMPLETE AS PER STANDARD SPECIFICATION.	NOS	10		
Sec. D	155	RS15	PROVIDING AND FIXING IN POSITION OF 40 MM DIA GATE VALVE. INCLUDING ALL NECESSARY FITTING & FIXTURE ETC. COMPLETE AS PER STANDARD SPECIFICATION.	NOS	7		
Sec. D	156	RS16	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	NOS	11		
Sec. D	157	RS17	PROVIDING AND FIXING IN POSITION OF 15 MM DIA NOMINAL SIZE SCREW DOWN TYPE CHROMIUM PLATES 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	NOS	11		
Sec. D	158	RS18	PROVIDING AND FIXING IN POSITION OF 100MM X 50MM HCI "NAHANT" 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.	NOS	14		
Sec. D	159	RS19	PROVIDING AND FIXING IN POSITION OF 150MM SALT GLAZED STONE WARE GULLY TRAP WITH HCI GRATINGS AND CI COVER OF SIZE 300X300 MM OF APPROVED MAKE (WEIGHT NOT LESS THAN 2 KG) AND QUALITY AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVE.	NOS	7		
Sec. D	160	RS20	PROVIDING AND LAYING WITH REQUIRED GRADING & LEVELING IN TRENCHES MEDIUM GRADE (TYPE) GALVANISED IRON (G I) 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, FIXING WITH CLAMPS, TESTING ETC. COMPLETE. (PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE.) 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.				
Sec. D	161	A	40MM DIA	RM	100		
Sec. D	162	B	25MM DIA	RM	100		
Sec. D	163	C	20MM DIA	RM	125		
Sec. D	164	D	15MM DIA	RM	150		
Sec. D	165	RS21	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 STONWARE PIPE INCLUSIVE OF ALL NECESSARY SPECIALS TARRED 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.				
Sec. D	166	A	100MM DIA STONWARE PIPELINE INCLUDING ALL SPECIALS COMPLETE.	RM	100		
Sec. D	167	RS22	PROVIDING AND FIXING IN POSITION OF PVC OVERHEAD WATER TANK OF SYNTEX OR ANY APPROVED MAKE OF 1000 LITRE CAPACITY WITH PROVISION FOR OVERFLOW ARRANGEMENT VALVES, INLET AND OUTLET ETC. COMPLETE. SUPPORTING STEEL STRUCTURE FOR FIXING THE TANK SHELL BE PAID IN THE RELEVANT ITEM.	NOS	2		
Sec. D	168	RS23	CONSTRUCTION OF 230MM THICK BURNT CLAY / FLY ASH LIME BRICK CHAMBER (USING OPC GRADE 43/53) 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 OVERSIZER SOLING WITH 80 MM METALETC. COMPLETE.				
Sec. D	169	A	600X450X450 WITH C.I COVER	NOS	4		
Sec. D	170	B	900X600X450 WITH C.I. COVER	NOS	2		
Sec. D	171	RS24	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.				
Sec. D	172	A	750MM x 600MM	NOS	4		
Sec. D	173	B	1050MM x 750MM	NOS	2		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	174	RS25	PROVIDING AND FIXING OF AQUA-GUARD OR EQUIVALENT WATER PURIFIER, ALONG WITH ALL FITTINGS. RATE TO INCLUDE ALL NECESSARY FITTINGS & FIXTURES, LABOUR ETC.AS APPROVED & DIRECTED BY BHEL ENGINEER.	NOS	2		
Sec. D	175	RS26	PROVIDING AND FIXING 40MM THICK BEST QUALITY 18 MM THICK GANG SAW CUT, MIRROR POLISHED, PREMOULDED AND PREPOLISHED, MACHINE CUT GRANITE SLAB FOR KITCHEN PLATFORMS OF REQUIRED SIZE, APPROVED SHADE, COLOUR AND TEXTURE LAID OVER 20 MM THICK BASE CM 1:4 (1 CEMENT : 4 COARSE SAND), JOINTS TREATED WITH WHITE CEMENT, MIXED WITH MATCHING PIGMENT, EPOXY TOUCHUPS, INCLUDING RUBBING, CURING, MOULDING AND POLISHING TO EDGES TO GIVE HIGH GLOSS FINISH etc.. COMPLETE OF REQUIRED SHAPE FOR FIXING SS SINK FOR KITCHEN COUNTER AND RACKS FOR KITCHEN STORE AREA ETC.COST INCLUSIVE OF MAKING OPENING AND FINISHING COMPLETE.	SQM	15		
Sec. D	176	RS27	PROVIDING & FIXING IN POSITION OF CI VENT PIPE OF DIA. 100MM (APPROX. HT. 3M) IN SEPTIC TANK INCLUDING DISMANTLING AND DISPOSING THE EXISTING DAMAGED VENT PIPES. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC.	RM	15		
Sec. D	177	RS28	DISPOSAL OF BUILDING RUBBISH / MALBA / SIMILAR UNSERVICEABLE, DISMANTLED OR WASTE MATERIALS (CIVIL & SANITARY WORK) BY MECHANICAL MEANS, INCLUDING LOADING, TRANSPORTING, UNLOADING TO APPROVED DUMPING GROUND OR AS APPROVED BY ENGINEER-IN-CHARGE, BEYOND 50 M INITIAL LEAD, FOR ALL LEADS (Max. 5 Kms) INCLUDING ALL LIFTS INVOLVED.	CUM	20		
Sec. D	HOTRICULTURE WORKS :						
Sec. D	178	RH1	GRASSING WITH SELECTION NO. 1 GRASS INCLUDING PREPARING THE GROUND SUITABLE FOR GRASSING BY EXCAVATION, PLOUGHING, WATERING ETC. AND MAINTENANCE OF THE LAWN FOR 30 DAYS OR MORE TILL THE GRASS FORMS A THICK LAWN, FREE FROM WEEDS AND FIT FOR MOWING INCLUDING SUPPLYING GOOD EARTH & MANURE AS DIRECTED BY BHEL ENGINEER.				
Sec. D	179	A	WITH GRASS TURF	100SQM	30		
Sec. D	180	RH2	PROVIDING AND LAYING BRICK ON EDGE FLOORING WITH BRICKS OF CLASS DESIGNATION 7.5 ON A BED OF 12MM CEMENT MORTAR, INCLUDING FILLING THE JOINTS WITH SAME MORTAR WITH COMMON BURNT CLAY NON MODULAR BRICKS:				
Sec. D	181	A	1:4 (1 CEMENT:4 COARSE SAND)	SQM	140		
Sec. D	ELECTRICAL WORKS:						
Sec. D	182	RE1	CHECKING COMPLETELY THE EXISTING COMMON MAIN DISTRIBUTIONS BOARDS/ LIGHTING PANELS AND REPLACING THE EXISTING DAMAGED FITTINGS AS REQUIRED AND AS DIRECTED BY BHEL ENGINEER ALL RCCBs, MCBs SHALL BE MDS/INDO KOPP OR EQUIVALENT MAKE. "DISTRIBUTION BOARDS SHALL BE PROVIDED WITH INTERNAL BUSBARS, INTERNAL WIRING, 2 NOS EARTHING TERMINALS, EARTH CONNECTIONS, INCLUDING GLANDS, LUGS Etc."				
Sec. D	183	A	INCOMING MCB TPH 100 AMPS.	NOS	2		
Sec. D	184	B	MCB TPH 32 AMPS.	NOS	7		
Sec. D	185	C	RCCB DP 25/20 AMPS.	NOS	6		
Sec. D	186	D	MCB SP 5 AMPS TO 32 AMPS	NOS	72		
Sec. D	187	E	32 AMP TPN WITH HRC FUSE	NOS	10		
Sec. D	188	F	125 AMP TP&N SFU WITH ISI MARKED HRC FUSES	NOS	1		
Sec. D	189	RE2	REWIRING FOR CIRCUIT / SUBMAIN, LIGHT POINT/ FAN POINT/ EXHAUST FAN POINT/ CALL BELL POINT WITH 2.5 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 2.5 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	350		
Sec. D	190	RE3	REWIRING FOR CIRCUIT / SUBMAIN, LIGHT POINT/ FAN POINT/ EXHAUST FAN POINT/ CALL BELL POINT WITH 2.5 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 2.5 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, REUSING DISMANTLED WIRE, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY ENGINEER-IN-CHARGE. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	400		
Sec. D	191	RE4	REWIRING FOR CIRCUIT / SUBMAIN, LIGHT & POWER PLUG WITH 4 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 4 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	250		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	192	RE5	REWIRING FOR CIRCUIT / SUBMAIN, LIGHT & POWER PLUG WITH 4 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 4 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, REUSING THE DIMANTLED WIRE, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	250		
Sec. D	193	RE6	REWIRING FOR CIRCUIT / SUB MAIN, POWER POINTS 5 AMP SOCKETS/ POWER SOCKETS Etc. WITH 6 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 6 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	300		
Sec. D	194	RE7	REWIRING FOR CIRCUIT / SUB MAIN, POWER POINTS / 5 AMP SOCKETS/ POWER SOCKETS Etc. WITH 6 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 6 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, REUSING THE DISMANTLED WIRE, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD	RM	300		
Sec. D	195	RE8	REWIRING FOR CIRCUIT / SUB MAIN, 15 AMP SOCKETS/ AIR CONDITIONER POINTS WITH 16 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 16 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, PROVIDING AND FIXING PVC CONDUITS SURFACE / RECESSED AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY ENGINEER-IN-CHARGE. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	50		
Sec. D	196	RE9	REWIRING FOR CIRCUIT / SUB MAIN, 15 AMP SOCKETS/ AIR CONDITIONER POINTS WITH 16 SQ.MM FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AND 16 SQ.MM. FRLS PVC INSULATED COPPER CONDUCTOR SINGLE CORE CABLE AS EARTH WIRE IN EXISTING SURFACE/ RECESSED STEEL/PVC CONDUIT INCLUDING DISMANTLING, REUSING DISMANTLED WIRE, PROVIDING AND FIXING PVC CONDUITS (SURFACE / RECESSED) AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY ENGINEER-IN-CHARGE. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD	RM	50		
Sec. D	197	RE10	SUPPLYING AND DRAWING FOLLOWING PAIR 0.5 MM DIA FRLS PVC INSULATED ANNEALED COPPER CONDUCTOR, UNARMORED TELEPHONE CABLE IN THE EXISTING SURFACE/ RECESSED STEEL/ PVC CONDUIT AS REQUIRED INCLUDING DISMANTLING, PROVIDING AND FIXING PVC CONDUITS SURFACE / RECESSED AS PER TECHNICAL SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER. THE MAKE OF THE WIRE SHALL BE ONLY FROM KEI / POLY CAP/ HAVELLS/ FINOLEX/L&T/STANDARD.	RM	500		
Sec. D	198	RE11	SUPPLY AND 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	210		
Sec. D	199	RE12	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	NOS	210		
Sec. D	200	RE13	DIMANTLING AND REMOVING EXISTING DAMAGED SWITCHES, SOCKETS/ OUTELTS & SUPPLYING AND FIXING FOLLOWING MODULAR SWITCH/ SOCKET (ANCHOR OR EQUIV) ON THE EXISTING MODULAR PLATE & SWITCH BOX INCLUDING CONNECTIONS BUT EXCLUDING MODULAR PLATE ETC. THE DIMANTLED UNSERVISABLE MATERIAL SHALL BE DISPOSED WITHIN 50 M LEAD.				
Sec. D	201	A	5/6 AMPS SWITCH	NOS	75		
Sec. D	202	B	2 WAY 5/6 AMPS SWITCH	NOS	15		
Sec. D	203	C	15/16 AMP SWITCH	NOS	35		
Sec. D	204	D	3 PIN 5/6 AMP SOCKET OUTLET	NOS	30		
Sec. D	205	E	6 PIN 15/16 AMP SOCKET OUTLET	NOS	35		
Sec. D	206	F	TELEPHONE SOCKET OUTLET	NOS	30		
Sec. D	207	G	BELL PUSH	NOS	30		
Sec. D	208	RE 14	SUPPLYING AND FIXING FOLLOWING SIZE MODULES, GI BOX ALONGWITH MODULAR BASE & COVER PLATE FOR MODULAR SWITCHES IN RECESS ETC AS REQUIRED.				
Sec. D	209	A	1 OR 2 MODULE (75MMX75MM)	NOS	15		
Sec. D	210	B	3 MODULE (100MMX75MM)	NOS	10		
Sec. D	211	C	4 MODULE (125MMX75MM)	NOS	10		
Sec. D	212	D	6 MODULE (200MMX75MM)	NOS	30		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	213	RE15	SUPPLYING AND FIXING CALL BELL/ BUZZER SUITABLE FOR SINGLE PHASE, 230 VOLTS, COMPLETE AS REQUIRED.	NOS	10		
Sec. D	214	RE16	SUPPLYING AND FIXING OF FOLLOWING SIZES OF MEDIUM CLASS PVC CONDUIT ALONG WITH ACCESSORIES IN SURFACE/RECESS INCLUDING CUTTING THE WALL AND MAKING GOOD THE SAME IN CASE OF RECESSED CONDUIT AS REQUIRED.				
Sec. D	215	A	20 / 25 MM	RM	250		
Sec. D	216	RE17	SUPPLYING AND FIXING STEPPED TYPE ELECTRONIC FAN REGULATOR ON THE EXISTING MODULAR PLATE SWITCH BOX INCLUDING CONNECTIONS BUT EXCLUDING MODULAR PLATE ETC. AS REQUIRED.	NOS	20		
Sec. D	217	RE 18	REMOVING AND REINSTALLATION, TESTING AND COMMISSIONING OF EXISTING CEILING FAN REGULATOR, IN EXISTING SWITCH BOX INCLUDING CONNECTION WITH 1.5 SQ. MM FR PVC INSULATED, COPPER CONDUCTOR, SINGLE CORE CABLE, EARTHING THE REGULATOR ETC. AS REQUIRED. (EXISTING FAN REGULATORS SHALL BE REMOVED AND STACKED AT SAFE PLACE BEFORE START OF DISMANTLING WORK AS DIRECTED BY BHEL ENGINEER.)	NOS.	15		
Sec. D	218	RE19	PAINTING OF CEILING FAN /EXHAUST FAN IN INSTALLED POSITION WITH ONE OR MORE COATS OF SPRAY PAINTING WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE TO GIVE AN EVEN SHADE, INCLUDING CLEANING OF SURFACE WITH DETERGENT ETC AS REQUIRED.	EACH	25		
Sec. D	219	RE20	SUPPLYING AND FIXING EXHAUST FANS 12" DIAMETER WITH FRAME OF STANDARD MANUFACTURER LIKE CROMPTAN GREEVES OR EQUIVALENT AS APPROVED BY BHEL ENGINEER. THIS INCLUDES LIGHT FITTINGS ETC., DISMANTLING THE EXISTING NON-FUNCTIONING/ DAMAGED EXHAUST FANS WHEREVER REQUIRED, STACKING THE SERVICABLE MATERIAL AND DISPOSING THE UNSERVICABLE MATERIAL WITHIN A LEAD OF 50 M. COMPLETE	NOS	5		
Sec. D	220	RE21	SUPPLYING AND FIXING METAL CLAD PLUG AND MCB OF 30AMPS. (CROMPTON/MDS MAKE) FOR AIR CONDITIONER WITH BOARD ETC COMPLETE.	NOS	35		
Sec. D	221	RE22	SUPPLYING AND FIXING CEILING FAN 48" DIAMETER OF APPROVED COMPANY SUCH AS CROMPTAN GREEVES OR ANY OTHER STANDARD MANUFACTURER AS DIRECTED BY BHEL ENGINEER. THIS INCLUDES LIGHT FITTINGS ETC., DISMANTLING THE EXISTING NON-FUNCTIONING/ DAMAGED CEILING FANS WHEREVER REQUIRED, STACKING THE SERVICABLE MATERIAL AND DISPOSING THE UNSERVICABLE MATERIAL WITHIN A LEAD OF 50 M. COMPLETE	NOS	20		
Sec. D	222	RE23	REMOVING AND REINSTALLATION, TESTING AND COMMISSIONING OF EXISTING CEILING FAN, INCLUDING WIRING THE DOWN RODS OF STANDARD LENGTH (UPTO 30 CM) WITH 1.5 SQ. MM FR PVC INSULATED, COPPER CONDUCTOR, SINGLE CORE CABLE, INCLUDING PROVIDING AND FIXING PHENOLIC LAMINATED SHEET COVER ON THE FAN BOX ETC. AS REQUIRED. EXISTING CEILING FANS SHALL BE REMOVED AND SATCKED AT SAFE PLACE BEFORE START OF DISMANTLING WORK IN OFFICE.	NOS	8		
Sec. D	223	RE24	PROVIDING, FIXING AND COMMISSIONING DECORATIVE TUBELIGHT (ON WALLS/FALSE CEILING) WITH FRAME OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL ENGINEER. THIS INCLUDES TUBE LIGHT FITTINGS ETC. COMPLETE. THE SCOPE ALSO INCLUDES DISMANTLING THE EXISTING DAMAGED FITTINGS STACKING THE SERVICABLE MATERIAL AND DISPOSING THE UNSERVICABLE MATERIAL WITHIN A LEAD OF 50 M.	NOS	100		
Sec. D	224	RE25	INSTALLATION, TESTING AND COMMISSIONING OF PRE-WIRED, FLUORESCENT FITTING / COMPACT FLUORESCENT FITTING OF ALL TYPES, WITH ALL ACCESSORIES AND TUBE ETC. DIRECTLY ON CEILING/ WALL, INCLUDING CONNECTION WITH 1.5 SQ. MM FR PVC INSULATED, COPPER CONDUCTOR, SINGLE CORE CABLE AND EARTHING ETC. AS REQUIRED. THIS INCLUDES DISMANTLING THE FLUORESCENT/ COMPACT FLUORESCENT FITTINGS BEFORE REMOVING THE OFFICE/ STORE PLASTER AND FALSE CEILING, STACKING THEM SAFELY AND REUSING THEM AS PER DIRECTION OF BHEL ENGINEER.	NOS	40		
Sec. D	225	RE26	INSTALLATION, TESTING AND COMMISSIONING OF PRE-WIRED, FLUORESCENT FITTING/ COMPACT FLUORESCENT FITTING OF ALL TYPES, WITH ALL ACCESSORIES AND TUBE ETC., INCLUDING SUPPLYING AND FIXING BALL AND SOCKET ARRANGEMENT, 2 NO. DOWN RODS OF 20 MM DIA X 1.6 MM THICK STEEL CONDUIT UPTO 30 CM LENGTH, PAINTING AND WIRING THE DOWN RODS AND CONNECTION WITH 1.5 SQ. MM FR PVC INSULATED, COPPER CONDUCTOR, SINGLE CORE CABLE AND EARTHING ETC AS REQUIRED. THIS INCLUDES DISMANTLING THE FLUORESCENT/ COMPACT FLUORESCENT FITTINGS BEFORE REMOVING THE OFFICE/ STORE PLASTER AND FALSE CEILING, STACKING THEM SAFELY AND REUSING THEM AS PER DIRECTION OF BHEL ENGINEER.	NOS	40		
Sec. D	226	RE27	PROVIDING EARTHING PITS WITH 2" DIA, 2 M LONG GI PIPES WITH FLANGE & GI WIRES WITH CHARCOL SALT AND AS PER STANDARD PRACTICE FOR ELECTRICAL CONNECTION. RATE SHALL BE INCLUSIVE OF ALL MATERIALS, LABOUR ETC. COMPLETE.	NOS	7		

PART 2: REPAIRING AND REMOULDING WORK FOR BHEL OFFICE (APPROX AREA: 750 SQM) AND CLOSED STORAGE SHEDS-06 NOS (APPROX SIZE: 900 SQM EACH)

BOQ CUM RATE SCHEDULE, SECTION - D							
SECTION	SL.NO	ITEM CODE	DESCRIPTION OF WORK	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Sec. D	227	RE28	DISPOSAL OF BUILDING RUBBISH / MALBA / SIMILAR UNSERVICEABLE, DISMANTLED OR WASTE MATERIALS (ELECTRICAL WORKS) BY MECHANICAL MEANS, INCLUDING LOADING, TRANSPORTING, UNLOADING TO APPROVED DUMPING GROUND OR AS APPROVED BY ENGINEER-IN-CHARGE, BEYOND 50 M INITIAL LEAD, FOR ALL LEADS (Max 5 Kms) INCLUDING ALL LIFTS INVOLVED.	CUM	10		
			TOTAL VALUE OF PART-2 (SECTION-D) In Rs.				
			TOTAL VALUE OF ALL ABOVE WORKS (Part 1 + Part 2) In Rs.				

Notes:

1	Contractor shall fully understand description and Specifications of items mentioned in BOQ.
2	Conditional price bids or price bids with any deviation / clarification etc. are liable to be rejected. No cutting / erasing / over writing shall be done.
3	Quantities mentioned in rate schedules are approximate only and liable for variation on either side depending upon site / design requirements. The tentative contract value (CV) of entire scope of work shall be calculated as per finally quoted / accepted rates & the Quantities indicated in Rate Schedule cum BOQ.
4	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.
5	Evaluation of bids shall be done on total price (Part 1 + Part 2) against this rate schedule / BOQ.
6	In case of any mismatch in rate and amount on price discrepancy, the same will be dealt as per clause no. 1.4 of GCC.
7	Premises of Existing BHEL Office and Closed Storage Sheds shall be cleared of all grass, vegetations, rubbish and properly levelled such as to make the area properly clean and tidy without any waterlogging. No extra payment shall be made for such works.
8	Checking the existing reusable electrical fittings / sanitary fittings, cleaning and reinstalling them such as to make them reusable and functional is also in scope of this contract. All such works may not be specifically mentioned in this BOQ cum Rate schedule but shall be deemed to be included in scope of contract and has to be carried out by contractor as directed by BHEL Engineer. No extra payment shall be made for such works.
9	All the existing material of BHEL Office and Closed Storage Shed shall be properly preserved and safeguarded or dismantled and stacked at safe place before start of dismantling / rectification work as directed by BHEL Engineer. All such materials which are covered or removed before start of dismantling shall be resituated, re-installed and re-commissioned to their original position after completion of dismantling /rectification and replacement work. All such works which may not be specifically mentioned in BOQ, shall be deemed to be included in the scope of this contract and has to be carried out by contractor as directed by BHEL Engineer. No extra payment shall be made for such works.

(Signature Date and Seal of Authorized Representative of Bidder)