

BHEL-PS-WR
TS NO : BHE/PW/PUR/SLPP-ENB-463
PRICE BID- PART-II, VOLUME -II

PART- II

NAME OF WORK: CONSTRUCTION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M), FENCING & AREA DEVELOPEMENT-25000 SQM AT GIPCL, MANGLORE

SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
1	A) EARTH WORK EXCAVATION UPTO 0 TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR FOUNDATION COLUMNS, SEPTIC TANK, SOAK PIT, RAMPS ETC., SPREADING THE EARTH UNIFORMLY AROUND THE OFFICE /STORE COMPLEX AREA AS WELL AS OPEN STORAGE YARD FOR SITE DEVELOPMENT WITHIN THE PROJECT BOUNDARY AS DIRECTED BY BHEL ENGINEER.	1300	M3		
	B) EXCAVATION IN SOFT & HARD ROCK (MANUALLY OR MECHANICALLY WITHOUT BLASTING)				
	(i) SOFT ROCK (Rate only)	250	M3		
	(ii) HARD ROCK (Rate only)	0	M3		
2(A)	BACK FILLING THE FOUNDATION AND PLINTH WITH EXCAVATED SOILS IN LAYERS NOT EXCEEDING 15 CM THICKNESS INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	400	M3		
2(B)	EARTHWORK IN BACKFILLING & COMPACTING IN LAYERS NOT EXCEEDING 200MM WITH SELECTED EARTH (COHESIVE NON-SWELING / MURRUM) OBTAINED FROM BORROW PITS OUTSIDE THE BATTERY LIMIT WITHIN A LEAD OF 5.0 KM INCLUSIVE OF NECESSARY ROYALTY CHARGES.	1500	M3		
2(C)	EXTRA OVER 2(B) FOR EVERY ADDITIONAL LEAD OF 1 KM OR PART THEREOF.	200	M3		
2(D)	PROVIDING & FILLING IN SOAK PIT WITH BRICK BATS 40-80MM INCLUDING PACKING ETC. COMPLETE,AS PER STANDARD SPECIFICATION AND AS INSTRUCTED BY BHEL ENGINEER.	15	M3		
3	SUPPLYING AND FILLING WITH GOOD RIVER SAND IN LAYERS, WATERING AND CONSOLIDATING ALL COMPLYING WITH STANDARD SPECIFICATION FOR FILLING THE FOUNDATION AND BELOW FLOOR AND BASEMENT. RATE INCLUDES COST OF MATERIAL, LABOUR, TRANSPORT, INCIDENTAL CHARGES ETC., COMPLETE.	230	M3		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
4	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING 40MM & DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR FOUNDATION, FLOORING, ETC. INCLUDING SHUTTERING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	270	M3		
5	PROVIDING AND LAYING RCC OF MIX 1:2:4 USING 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK AND CENTERING AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS FOR FOUNDATION, PLINTH BEAM, LINTELS, SUN SHADES, PEDESTALS, COLUMNS, ETC. AT ALL ELEVATIONS AND LEVELS.	120	M3		
6	PROVIDING DPC WITH CC 1:2:4 40MM THICK INCLUDING BITUMEN COATING AS PER STANDARD PRACTICE AND SPECIFICATIONS.	125	M2		
7	PROVIDING AND FIXING REINFORCEMENT INCLUDING CUTTING, BENDING AND FABRICATION OF REINFORCEMENT USING HIGH TENSILE TOR STEEL AS PER DRAWING AND SPECIFICATION AND AS DIRECTED BY BHEL ENGINEER INCLUDING COST OF ALL LEADS, LIFT AND MATERIALS, LABOUR AND MS BINDING WIRE 18/20 GAUGE ETC. COMPLETE.	13	MT		
8	PROVIDING BRICK WORK IN CM 1:6 (MIN. STRENGTH 35KG/SQ.CM) AS PER DRAWING AND RELEVANT IS CODE FOR FOUNDATION, WALL, SEPTIC TANK ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING ETC. COMPLETE AND AS DIRECTED BY ENGINEER AT ALL ELEVATIONS AND LEVELS.	500	M3		
9	PROVIDING HALF BRICK WORK PARTITION WALL IN CM 1:4 INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING AS PER DRAWING AND AS DIRECTED BY BHEL ENGINEER	250	M2		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
10 (A)	DESIGN, MANUFACTURE, SUPPLY AND ERECTION OF TUBULAR/STRUCTURAL/COMPOSITE TRUSSES, PURLINS SPACED GENERALLY @ 1.4 M CENTRE TO CENTRE TO SUPPORT ROOFING WITH AC SHEETS AND WIND TIES TO BE PROVIDED ABOVE SHEETS AND PROVIDING AND FIXING BASE PLATES WITH HOLDING DOWN BOLTS ON RCC COLUMNS , GUSSETS, RIBS, PINS, SPLICES ETC. AS REQUIRED INCLUDING TRANSPORT, LOADING, UNLOADING CHARGES FROM FABRICATION SHOP TO SITE ETC. COMPLETE. DRAWING ATTACHED WITH TENDER IS INDICATIVE ONLY & DESIGN HAS TO BE OBTAINED FOR TRUSS BEFORE FABRICATION, DULY APPROVED BY BHEL. RATE IS INCLUDING ALL STEEL SECTIONS, FIXING IN POSITION, LABOUR CHARGES AND COST OF RED OXIDE PRIMER AT FACTORY AND TWO COATS OF SYNTHETIC ENAMEL PAINTS (OVER PRIMER COAT OF RED OXIDE) OF APPROVED COLOUR AND QUALITY AT SITE.	40	MT		
10(B)	...DO.. STRUCTURAL STEEL STAGING FOR ERECTION OF PVC O.H.WATER TANK CAP. 1000 LITRES	1.5	MT		
11	PROVIDING AND FIXING 6/7MM THICK AC CORRUGATED SHEETS WITH RIDGE CAPS FOR ROOFING INCLUDING GALVANISED IRON J OR L HOOK BOLTS, GI IRON AND BITUMINOUS WASHERS, GI CRAMP BOLTS, NUTS ETC. COMPLETE, ALL AS PER LATEST IS 459, 3307 AND 730.	3000	M2		
12	PROVIDING AND FIXING TRANSLUCENT RMP/FRP SHEETS 1.5 MM THICK OF APPROVED MAKE INCLUDING COST OF GI HOOKS/J OR L BOLTS, NUTS, WASHERS, BITUMEN WASHERS ETC. COMPLETE SO AS TO MATCH WITH AC CORRUGATED SHEETS.	150	M2		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
13	A) PROVIDING AND FIXING FALSE CEILING WITH 4MM THICK AC PLAIN SHEETS OF APPROVED QUALITY AND DESIGN OF SIZE 600x600 MM PANELS WITH SQUARE EDGES SUPPORTED BY ANODISED ALUMINIUM FRAMES OF TEES 35x23.5x1.5 MM THICK AS MAIN MEMBER AND 19x23.5x1.5 MM TEES AS CROSS SUPPORTING MEMBERS AND WALL ANGLES OF 23.5x23.5x1.5MM. THE MAIN RUNNERS SHALL BE SUSPENDED FROM ROOF AT 1200 MM CENTRE TO CENTRE BY MEANS OF MS RODS WITH GI 'J' THREADED HOOK FOR ADJUSTMENTS. THE CROSS RUNNERS SHALL BE FIXED TO MAIN RUNNER TO FORM A GRID PATTERN OF 600x600MM AND PROVIDING 25 MM WIDE ALUMINIUM STRIP TEES OR MOULDED SECTIONS AT ALL JOINTS. THE RATE SHALL BE INCLUSIVE OF THREE COATS OF WHITE WASHING ON AC PLAIN SHEETS ETC. COMPLETE.	135	M2		
14A	MANUFACTURING, SUPPLY AND FIXING OF BEST QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95 X 70MM AND 38/40MM THICK FLUSH SHUTTERS OF SOLID CORE TYPE USING COMMERCIAL PLY INCLUDING HOLD FASTS, WIND APPLIANCES, HANDLES, TOWER BOLTS AND ALDROPS, MORTISE OR SUITABLE LOCKS ETC. AS PER THE STANDARD PRACTICE AND APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED SHADE OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	16	M2		
14B	MANUFACTURING, SUPPLY AND FIXING OF BEST QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95 X 70MM AND 38/40MM THICK PANEL SHUTTERS, (DOUBLE SHUTTER TYPE) INCLUDING HOLD FASTS, WIND APPLIANCES, HANDLES, TOWER BOLTS AND ALDROPS, MORTISE OR SUITABLE LOCKS ETC. AS PER THE STANDARD PRACTICE AND APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED SHADE OVER A COAT OF PRIMER AS DIRECTED BY BHEL ENGINEER.	4	M2		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
15A	MANUFACTURE, SUPPLY AND FIXING IN POSITION OF 40MM THICK, FLUSH STEEL DOORS DOUBLE PLATED WITH PRESSED STEEL (SINGLE SHUTTER TYPE) FRAMES AS PER STANDARD SPECIFICATIONS, RELEVANT IS CODES AND INSTRUCTIONS OF BHEL ENGINEER INCLUDING HOLD FASTS, FURNITURE AND FITTINGS, LOCKING ARRANGEMENTS ETC. COMPLETE. THE COST SHALL BE INCLUSIVE OF TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER. (RATE ONLY)	10	M2		
15B	SAME AS ABOVE (WITH DOUBLE SHUTTER) - Rate only	10	M2		
16	MANUFACTURE, SUPPLY AND FIXING IN POSITION OF STEEL WINDOWS AND VENTILATORS INCLUDING FRAMES & IRON BARRED (GUARD BAR OF SQUARE SECTION @ 100 MM C/C) AND GLAZED WITH 4MM PLAIN GLASS AS PER STANDARD SPECIFICATIONS, RELEVANT IS CODE AND INSTRUCTIONS OF BHEL ENGINEER. THE COST SHALL BE INCLUSIVE OF ALL ACCESSORIES FITTINGS, HOLD FASTS, PAINTING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER ETC. COMPLETE.				
	i) STEEL WINDOWS	15	M2		
	ii) STEEL VENTILATORS :-				
	A) LOUVER TYPE	2	M2		
	B) FULLY GLAZED(4MM PLAIN) SWING TYPE(IN STORES)	40	M2		
17	MANUFACTURE, SUPPLY AND FIXING OF MS ROLLING SHUTTERS AS PER I.S. SPECIFICATIONS, COMPLETE, MECHANICALLY OPERATED FROM IN AND OUTSIDE BOTH FOR STORAGE SHEDS AS PER DRAWING AND AS INSTRUCTED BY BHEL ENGINEER INCLUDING TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER (COST SHALL BE INCLUSIVE OF ALL THE ABOVE COMPLETE).	50	M2		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
18 (A)	PROVIDING & FIXING PARTITION OF PRELAMINATED PARTICLE BOARD 12MM THICK WITH ANODISED ALLUMINIUM FRAMES, BIDDING ETC. COMPLETE UP TO A HEIGHT OF 900MM FROM FINISHED FLOOR LEVEL (I.E. BELOW ALLUMINIUM GLAZED PARTION)	7	M2		
18(B)	PROVIDING & FIXING ANODISED ALLUMINIUM GLAZED PARTITION WITH HOLLOW EXTRUDED SECTION OF MIN. 3MM THICKNESS AS MANUFACTURED BY INDAL OR EQUIVALENT WITH MATCHING SINGLE DOOR SHUTTERS & FLOOR MOUNTED HYDRAULIC DOOR CLOSER (1 NO.) INCLUDING GLAZING OF 5.5MM THICK FLAT TRANSPERANT SHEET GLASS, BIDDING, CONCEALED SCREWS, HOLDFFAST ETC.COMPLETE	15	M2		
19	PROVIDING AND FIXING IPS FLOORING 40MM/25MM THICK WITH CEMENT CONCRETE 1:2:4 AS PER STANDARD PRACTICE IN PANELS OF SIZE NOT EXCEEDING 2.0x2.0 M SQ. BY PROVIDING, FIXING GLASS STRIPS.				
	A) IPS FLOORING 40 MM THICK	2600	M2		
	B) IPS FLOORING 25 MM THICK (OFFICE AREA)	200	M2		
20	PROVIDING AND PLASTERING WITH CEMENT MORTAR 1:6 OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. OF ALL HEIGHTS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.				
	(i) EXTERNAL PLASTER 18MM THICK	2200	M2		
	(ii) INTERNAL PLASTER 12MM THICK	2500	M2		
21	PROVIDING AND LAYING GLAZED TILES OF SIZE 150X150X6MM FOR FLOORING AND WALL DADOO, SKIRTING OVER A BED OF CEMENT MORTAR 1:3, 12MM THICK INCLUDING POINTING WITH NEAT WHITE CEMENT INCLUDING COST OF LABOUR, MATERIALS ETC. COMPLETE. (RATE ONLY)	100	M2		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
22	PROVIDING WHITE OR COLOUR WASH THREE COATS ON NEWLY PLASTERED SURFACE USING BEST SHELL LIME TO GIVE AN EVEN SHADE INCLUDING CLEANING AND BRUSHING OF WALLS AND PREPARING SURFACE IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE TO INCLUDE COST OF ALL MATERIALS INCLUDING COLOURING AGENT, APPROVED ADDESSIVE, SCAFFOLDING, BRUSH ETC. COMPLETE.	2700	M2		
23	PAINTING THREE COATS OF CEMENT PAINT (SNOW CEM) OF APPROVED QUALITY AND SHADE ON NEWLY PLASTERED SURFACE TO GIVE AN EVEN SHADE INCLUDING CLEANING, PREPARING THE SURFACE AND CURING, SCAFFOLDING ETC. COMPLETE. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR, CONSUMABLES ETC. COMPLETE	2200	M2		
24	PAINTING TWO COATS OF OBD OF APPROVED QUALITY AND SHADE ON NEWLY PLASTERED SURFACE IN OFFICE AREA ONLY TO GIVE AN EVEN SHADE INCLUDING CLEANING, PREPARATION OF SURFACE BY APPLYING PUTTY AND A PRIMER COAT. RATE QUOTED SHOULD INCLUDE COST OF ALL MATERIALS, LABOUR, CONSUMABLES, SCAFFOLDING ETC. COMPLETE.	150	M2		
25	PROVIDING AND FIXING HYDRAULIC DOOR CLOSER (HEAVY DUTY) OF APPROVED BRAND AND AS DIRECTED BY BHEL ENGINEER.	5	NO.		
26	SUPPLYING AND FIXING IN POSITION OF WHITE GLAZED VITREOUS CHINA WASH BASIN OF SIZE 550 X 400 MM OF APPROVED MAKE AND QUALITY WITH CI BRACKETS PAINTED WITH TWO COATS OF SYNTHETIC ENAMEL PAINT, SINGLE 15MM CP BRASS PILLAR TAP AND CP BRASS CHAIN WITH RUBBER PLUG, 32MM CP BRASS WASTE COUPLING OF STANDARD PATTERN, 32MM DIA MI OR CP BRASS TRAP AND UNIONS 32MM DIA PVC WASTE PIPE COMPLETE INCLUDING CUTTING AND MAKING GOOD THE WALLS WHEREVER REQUIRED. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR FOR CARRYING, LAYING AND FIXING AND ALL OTHER INCIDENTAL CHARGES ETC. COMPLETE.	3	NO		

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

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
29	SUPPLYING AT SITE OF WORK, CARRYING, LAYING JOINTING AND FIXING IN POSITION OF WHITE GLAZED EARTHENWARE FLAT BACK/CORNER TYPE LIPPED FRONT URINALS OF 430MM X 260MM X 350MM / 340X460X265 MM OF APPROVED MAKE AND QUALITY WITH AUTOMATIC FLUSHING CISTERN WITH CI/MS BRACKETS, STANDARD SIZE GI FLUSH PIPE AND SPREADERS WITH BRASS UNIONS, GICLAMPS (INCLUDING PAINTING OF CISTERNS), TEAKWOOD PLUGS AND SCREWS, INCLUDING SUPPLYING AND FIXING A PAIR OF WHITE GLAZED EARTHENWARE FOOT RESTS FOR EACH URINAL, CUTTING OF FLOORS AND WALLS AND MAKING GOOD OF ALL DAMAGES AND FINISHING TO MATCH THE EXISTING WORK ETC. COMPLETE. RATE QUOTED SHALL INCLUDE COST OF ALL MATERIALS AND LABOUR FOR CARRYING, LAYING AND FIXING AND ALL OTHER INCIDENTAL CHARGES ETC. COMPLETE.				
	A) URINAL BASIN WITH 5 LITRES CI AUTOMATIC FLUSHING CISTERN IN STORE CUM OFFICE SHED.	2	SET		
30	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION OF HIGH CLASS BELGIUM OR SUPERIOR MAKE BEVELLED EDGE MIRROR OF SIZE 600MM X 450MM X 6MM MOUNTED ON 6MM THICK PLYWOOD OR PLASTIC FOLDER SHEET. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR FOR FIXING THE WOODEN PLUGS WITH CP BRASS SCREWS AND WASHERS ETC. COMPLETE.	3	NO		
31	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION ,THE FOLLOWING SIZES OF GUN METAL WHEEL VALVES AS PER STANDARD SPECIFICATION (LEADER MAKE OR EQUIVALENT).				
	A) 15 MM NOMINAL SIZE GM WHEEL VALVE	5	NO		
	B) 20 MM NOMINAL SIZE GM WHEEL VALVE	4	NO		
	C) 25 MM NOMINAL SIZE GM WHEEL VALVE	4	NO		
	D) 32 MM NOMINAL SIZE GM WHEEL VALVE	Rate Only	NO		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
	E) 40MM NOMINAL SIZE GM WHEEL VALVE	Rate Only	NO		
	F) 50MM NOMINAL SIZE GM WHEEL VALVE	Rate Only	NO		
	G) 75MM NOMINAL SIZE GM WHEEL VALVE	Rate Only	NO		
32	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION 15MM NOMINAL SIZE SCREW DOWN TYPE CHROMIUM PLATES BRASS BIB COCKS OF APPROVED MAKE AND QUALITY (LEADER MAKE OR EQUIVALENT) AS PER STANDARD SPECIFICATION.	5	NO		
33	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION OF 15MM NOMINAL SIZE CP BRASS STOP COCK OF APPROVED MAKE AND QUALITY (LEADER OR DRIPLESS MAKE) AS PER STANDARD SPECIFICATIONS. RATE TO INCLUDE COST OF JOINTING MATERIALS, COST OF STOP COCK, LABOUR FOR CARRYING AND FIXING ETC. COMPLETE.	5	NO		
34	SUPPLYING AT SITE OF WORK AND FIXING 100MM X 50MM HCI "NAHANI" TRAP WITH HCI GRATINGS AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVE.	5	NO		
35	SUPPLYING AT SITE OF WORK AND FIXING 150MM STONE WARE GULLY TRAP WITH HCI GRATINGS AND CI COVER OF SIZE 300X300 MM OF APPROVED MAKE (WEIGHT 300MM X 300 MM OF APPROVED MAKE (WEIGHT NOT LESS THAN 2 KG) AND QUALITY AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVE.	5	NO		
36	SUPPLYING AT SITE OF WORK AND FIXING IN POSITION AND JOINTING OF ASBESTOS CEMENT PIPE WITH CEMENT MORTAR 1:2 AND BITUMASTIC COMPOUND OF FOLLOWING DIAMETER WITH SHOE, BEND, MS CLAMPS, BRACKETS, TEAKWOOD PLUGS, GRATINGS, COWL ETC. COMPLETE AS PER STANDARD SPECIFICATIONS. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR CHARGES FOR FIXING AND ALL INCIDENTAL CHARGES ETC. COMPLETE.				

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
	A) 100MM DIA AC PIPE WITH ALL FITTINGS	10	RM		
37	SUPPLYING AT SITE OF WORK, TRENCHING, CARRYING TO TRENCHES AND LOWERING INTO TRENCHES AND ON WALLS, FLOORS ETC., LAYING TO PROPER ALIGNMENT, GRADE, LEVEL AND JOINTING WITH ALL NECESSARY SPECIALS, TEES, ELBOWS, UNIONS AND APPURTENANCES AND INCLUDING PRESSURE TESTING OF THE FOLLOWING SIZES OF GI PIPE LINES INCLUDING REFILLING OF TRENCHES WITH EXCAVATED EARTH IN LAYERS, WATERING AND RAMMING AND RESTORATION OF GROUND, ALL COMPLETE AS PER SPECIFICATIONS. RATE TO INCLUDE EARTH WORK EXCAVATION IN ALL SOILS, EXCEPT HARD ROCK REQUIRING BLASTING , SHORING, BALLING OR PUMPING OUT OF WATER WHEREVER REQUIRED, REMOVAL OF SLUSH ETC. REMOVING AND DEPOSITING SURPLUS EARTH AS DIRECTED BY THE BHEL ENGINEER INCLUDING ALL LEADS AND LIFTS AS PER SITE CONDITIONS.				
	D) 40MM DIA GI PIPE LINE WITH ALL SPECIALS	100	RM		
	E) 25MM DIA GI PIPE LINE WITH ALL SPECIALS	50	RM		
	F) 15MM DIA GI PIPE LINE WITH ALL SPECIALS	100	RM		
38	SUPPLYING AT SITE OF WORK, CARRYING AND LOWERING INTO TRENCHES, LAYING TO PROPER ALIGNMENT, LEVEL AND GRADE, JOINTING WITH CM (1:1) AND TESTING OF JOINTS ETC. OF THE FOLLOWING SIZE OF SALT GLAZED STONEWARE PIPE INCLUSIVE OF ALL NECESSARY SPECIALS TARRED HEMP YARN AND ALL JOINTING MATERIALS COMPLETE AS PER STANDARD SPECIFICATIONS INCLUDING ALL LEAD AND LIFT AS PER SITE CONDITIONS. (RATE QUOTED SHALL INCLUDE COST OF ALL MATERIALS, LABOUR CHARGES AND INCIDENTAL CHARGES ETC. COMPLETE).				
	A) 4" (100MM) DIA STONEWARE PIPELINE INCLUDING ALL SPECIALS COMPLETE.	30	RM		
	B) 6" (150MM) DIA STONEWARE PIPELINE INCLUDING ALL SPECIALS COMPLETE.	20	RM		

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SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
39	SUPPLY AND FIXING IN POSITION PVC WATER OVERHEAD TANK OF SYNTEX OR ANY APPROVED MAKE OF 1M3 CAPACITY WITH PROVISION FOR OVERFLOW ARRANGEMENT VALVES, INLET AND OUTLET ETC. COMPLETE. SUPPORTING STRUCTURE FOR FIXING THE TANK WILL BE AS PER ITEM RATE GIVEN SEPARATELY.	1	NO		
40	PROVIDING AND FIXING BARBED WIRE FENCING AROUND STORAGE SHEDS, OPEN STORAGE YARD AND OFFICE SHEDS AS PER DRAWING/AS INSTRUCTED BY ENGINEER INCHARGE, INCLUDING POSTS OF MS ANGLES 50x50x6MM 2.00 M HIGH ABOVE GROUND AND 450MM EMBEDDED IN THE CONCRETE BELOW G.L AS PER STANDARD PRACTICE/AS INSTRUCTED BY ENGINEER INCHARGE, FIXING THE POSTS WITH FOUNDATION OF SIZE 0.30x0.30x0.45 M DEEP IN PCC OF MIX 1:3:6,THE POSTS SHALL BE SPACED AT 3M CENTRES AND STRUTS AT 30M CENTRES AND AT ALL TURNINGS WITH FOUNDATIONS,SUPPLYING AND FIXING GI BARBED WIRES, 10 HORIZONTAL LINES, TWO DIAGONALS BETWEEN POSTS BY MEANS OF GI STAPLES AS PER STANDARD PRACTICE. THE BARBED WIRE SHALL CONFORM TO IS 278 AND BE MADE OF TWO STRANDS OF GALVANISED TWISTED 2.5MM DIA (12.5 GAUGE) STEEL WIRE WITH FOUR POINT BARS. RATE QUOTED SHALL BE INCLUSIVE OF EXCAVATION, DISPOSAL OF SURPLUS EARTH, CONCRETE (1:3:6), FORM WORK AND ALL MATERIALS, COST OF POSTS, BARBED WIRES, TRANSPORTING, FIXING IN POSITION ETC. INCLUDING COST OF ALL LABOUR AND TWO COATS OF ENAMEL PAINT OF APPROVED SHADE WITH A SHOP COAT OF PRIMER IN ALL STRUCTURAL	500	RM		
41	SUPPLY FABRICATION, AND FIXING IN POSITION OF MS GATES WITH STRUCTURAL/TUBULAR STEEL FRAMES WITH GALVANIZED CHAIN LINK MESH OF APPROVED DESIGN INCLUDING COST OF FOUNDATION & POSTS, PAINTING TWO COATS BY SYNTHETIC ENAMEL PAINT OF APPROVED COLOUR AND QUALITY OVER ONE COAT OF RED OXIDE PRIMER, COST OF ALL MATERIALS, LABOUR, TRANSPORT ETC. COMPLETE. POST SHALL BE PAID UNDER ITEM 10 (A).	4.5	MT		

BHEL-PS-WR
TS NO : BHE/PW/PUR/SLPP-ENB-463
PRICE BID- PART-II, VOLUME -II

NAME OF WORK: CONSTRUCTION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M), FENCING & AREA DELOPEMENT-25000 SQM AT GIPCL, MANGLORE					
SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
42	PROVIDING AND FIXING OF BEST QUALITY CERAMIC TILES OF APPROVED MAKE LIKE SPARTEC OR EQUIVALENT OVER THE FLOORS OF CM's CABIN, CONFERENCE HALL, COMPUTER ROOM, AND FLOOR/DADO OF ALL THE TOILET BLOCKS. SHADES/COLOURS/SIZES HAS TO BE DECIDED AFTER APPROVAL OF BHEL ENGINEER OF BHEL. RATE QUOTED SHALL BE INCLUSIVE OF BASE PREPARATION/MORTER BEDDING BELOW TILES AND ALL ASSOCIATED WORK LIKE JOINTING, FINISHING WITH WHITE CEMENT, CLEARING ETC. COMPLETE	50	M2		
43	CONSTRUCTION OF BRICK CHAMBER OF THE FOLLOWING DIMENSIONS (INNER DIMENSION) WITH CEMENT PLASTER INSIDE WITH NEAT CEMENT FINISH & TOP WITH CI – COVER FOR CONNECTING THE SEWER LINES. RATE SHALL BE INCLUSIVE OF ALL EXCAVATION, FILLING, PCC, B/K WORK , PLASTER, COVERS ETC. COMPLETE.				
	450X450X450 WITH C.I COVER	5	NO		
	B) –DO- 600X600X600 WITH C.I. COVER	5	NO		
44	SUPPLYING & FIXING, MARBLE PARTITIONS IN BETWEEN URINALS (SIZE 1.5MX0.60MX25MM THICK) - (RATE ONLY)	0	M2		
45	SUPPLYING & FIXING CADDAPPA STONE IN KITCHEN / PANTRY OTTA OF APPROVED QUALITY & 40MM THIK	4	SQ.M		
46	I) PROVIDING AND FIXING ANODISED ALUMINUN (1M LONG) TOWEL RODS OF GOOD QUALITY IN TOILET BLOCKS & PANTRY	4	NO.		
	II) PROVIDING & FIXING LIQUID SOAP DISPENSER AT ALL THE WASH BASIN LOCATION	4	NO.		
47	PROVIDING & FIXING WOODEN FRAME OF BEST COUNTRY WOOD (2.5"x3.0") FOR INSTALLING PORTABLE 2-T AIR CONDITIONAR ON THE WALL OPENING (31"x22"), SO AS TO MAKE A FRAME OF INSIDE CLEAR DIMENSION 26"x17" WITH COMPLETE FINISHING PAINTING, HOLD FAST ETC.	5	NOS.		

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PRICE BID- PART-II, VOLUME -II

NAME OF WORK: CONSTRUCTION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M), FENCING & AREA DEVELOPEMENT-25000 SQM AT GIPCL, MANGLORE					
SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
48(A)	PROVIDING NEAT CEMENT FINISH OVER THE FRESHLY LAID PLASTER INSIDE THE SEPTIC TANK	35	M2		
48(B)	PROVIDING & FIXING IN POSITION AC VENT PIPE OF DIA. 100MM (HT. 3M) IN SEPTIC TANK	1	No.		
48(C)	PROVIDING & FIXING 75 THK. RCC PRECAST COVER (600X600) WITH 1:2:4 CONCRETE FOR MAN HOLE CHAMBER OF SEPTIC TANK & OVER THE SOAK PIT INCLUDING ALL MATERIALS, CURING, LIFTING HOOKS, LABOUR ETC. COMPLETE	5	Nos.		
49	PROVIDING AND FIXING METALLIC DECORATIVE TYPE HEAVY DUTY PELMET FOR DOORS AND WINDOWS AS APPROVED BY BHEL ENGINEER.	5	EACH		
50	AREA CLEANING FOR OPEN STORAGE YARD BY CUTTING TREES, VEGETATIONS, GRASS & UPROOTING INCLUDING DISPOSAL OF THE SAME TO THE AREA EARMARKED INSIDE THE PLANT	25000	M2		
51	EXCAVATION FOR DRAINS IN ALL TYPES OF SOILS, SAND, GRAVEL OR SOFT MURAM INCLUDING DRESSING SECTION TO THE REQUIRED SLOPES AND SPREADING THE EXCAVATED EARTH UNIFORMLY IN THE SPECIFIED AREA FOR SITE LEVELING & DEVELOPMENT AS DIRECTED BY THE BHEL .	200	M3		
52	DISPOSAL OF SURPLUS SOIL BEYOND INITIAL LEAD OF 100METRES AND TO A DISTANCE NOT EXCEEEDING 1KM INCLUDING LOADING TRANSPORTING UNLOADING, SPREADING ,LEVELLING IN LOW LAYING AREAS OF OPEN STORAGE YARD. OR IN LOCATION DIRECTED BY ENGINEER IN CHARGE.	200	M3		
53	CONSOLIDATION OF SUB-BASE BEFORE PROVIDING STONE SOLING WITH 10-12T POWER ROLLER INCLUDING LEVELLING, WATERING ETC. COMPLETE WITH ALL T& P , MATERIALS, LABOURS.	1200	M2		
54	PROVIDING AND LAYING SOLING 230 MM THK WITH 150 -200 MM THICK BOULDER SIZE AND FILLING THE VOIDS WITH HAND BROKEN METAL OF SIZE 40-60 MM SPREADING MURRUM AND ROLLING AND COMPACTION INCLUDING WATERING, WITH 10-12 MT CAPACITY ROAD ROLLER.	300	M3		

BHEL-PS-WR
TS NO : BHE/PW/PUR/SLPP-ENB-463
PRICE BID- PART-II, VOLUME -II

NAME OF WORK: CONSTRUCTION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M), FENCING & AREA DELOPEMENT-25000 SQM AT GIPCL, MANGLORE					
SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
55	PROVIDING 150MM THICK WATER BOUND MACADAM (WBM) IN TWO LAYERS OF EACH 75MM, WITH 40MM TO 60MM METAL (STONE AGGREGATE) INCLUDING SUPPLYING AND SPREADING GRAVEL/MURRUM OVER THE SOLING/CONSOLIDATED BASE, COMPACTING THE SAME WITH POWER ROLLER INCLUDING NECESSARY LABOUR, WATERING, MATERINGS ETC. COMPLETE, ALL AS PER RELEVANT SPECIFICATIONS AND DIRECTIONS OF BHEL ENGINEER (RATE SHALL BE INCLUSIVE OF ALL LABOUR, MATERIALS ETC., COMPLETE).	200	M3		
	TOTAL OF PART-I				

BHEL-PS-WR
TS NO : BHE/PW/PUR/SLPP-ENB-463
PRICE BID- PART-II, VOLUME -II

NAME OF WORK: CONSTRUCTION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M), FENCING & AREA DELOPEMENT-25000 SQM AT GIPCL, MANGLORE					
SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
NAME OF WORK: INTERNAL ELECTRIFICATION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M) AT GIPCL, MANGLORE					
SL.NO.	DESCRIPTION OF WORK	QTY.	UNIT	RATE	AMT.
1	SUPPLYING & INSTALLING METER BOX COMPLETE WITH THE BUS BAR & ON EACH PHASE 4 MCBs SHALL BE CONNECTED & SHOULD HAVE PROVISION OF NEUTRAL BUS BAR. ENCLOSURE SHOULD HAVE EARTHING PROVISION AT TWO POINTS				
1(A)	100 AMPS. 4 POLE MCCB L&T MAKE	3	NO		
1(B)	6 AMPS MCCB SINGLE POLE L&T/ MDS MAKE	36	NO		
2	PROVIDING AND INSTALLING WIRING FOR LIGHTS USING 2.5 MM2 COPPER CONDUCTOR THROUGH PVC BOX CHANNEL CONDUIT WITH ACCESSORIES AND FIXTURES .WIRIN SHALL BE CONCEALED TYPE FOR CM'S ROOM,CONFERENC HALL AND COMPUTER ROOM.	75	PER POINT		
3	PROVIDING AND INSTALLATION OF WIRING FOR FANS/COOLERS USING 2.5 MM2 COPPER CONDUCTOR THROUGH PVC CONDUITS WITH ACCESSORIES AND FIXTURES.	75	PER POINT		
4	POVIDING AND INSTALLATION OF PLUG POINT OF 5A/15A SOCKET OUTLET INCLUDING WIRING.	15	NO		
5	PROVIDING AND FIXING ORDINARY TUBELIGHT WITH FRAME OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL.	90	NO.		
6	PROVIDING AND FIXING EXHAUST FANS 12" DIAMETER WITH FRAME OF STANDARD MANUFACTURER LIKE CROMPTAN GREEVES OR EQUIVALENT AS APPROVED BY BHEL.	3	NO.		
7	PROVIDING AND FIXING HEAVY DUTY PLUG POINT 15 AMPS WITH ONE SWITCH FOR COMPUTER ,ONE FOR AC CONNECTION WITH BORD ETC COMPLETE.	10	NO.		

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PRICE BID- PART-II, VOLUME -II

NAME OF WORK: CONSTRUCTION OF 3 NOS. CLOSED STORAGE SHEDS (02 NOS.OF SIZE 15MX60M & 1NO. OF SIZE 12MX45M), FENCING & AREA DELOPEMENT-25000 SQM AT GIPCL, MANGLORE					
SL.NO.	DESCRIPTION OF WORK	QUANTITY	UNIT	RATE	AMOUNT
8	PROVIDING AND FIXING METAL CLAD SWITCH FOR AIR CONDITIONER WITH BOARD ETC COMPLETE.	3	NO.		
9	PROVIDING AND FXING 63 AMPS 4 POLES AC BOX (MAIN SUPPLY TO COMPUTER.)	3	NO.		
10	PROVIDING AND FIXING CEILING FAN 48" DIAMETER OF APPROVED COMPANY SUCH AS CROMTAN GREEVES OR ANY OTHER STANDARD MANUFACTURER AS DIRECTED BY BHEL.	10	NO		
11	PROVIDING AND FIXING CALLING BELLS (WITH INDICATOR LIGHT)	3	NO		
12	PROVIDING EARTHING PITS WITH GI PIPES AND WIRES AS PER THE STANDARD PRACTICE FOR ELECTRICAL CONNECTION.RATE SHALL BE INCLUSIVE OF ALL MATERIALS,LABOURS,ETC COMPLETE.	6	NO		
13	SUPPLYING & FIXING ELECTRIC PANEL WITH (1) 1 NOS METAL CLAD 63 A, 4 POLE + EARTH(3 PHASE) (2) 1 NOS 30 A, 3 POLE 1 PHASE (3) 3 NOS 20 A, 3 POLE 1 PHASE SOCKETS WITH MCBS OF APPROPRIATE RATING.ALL FITTINGS SHALL BE OF HAGER/ALSTOM/MDS MAKE . INCLUDING GLANDS , LUGS & WIRING FROM MAINS. INTERNAL BUSBAR , 2 NOS EARTH TERMINALS , PLUG TOPS TO BE PROVIDED	1	NO		
	TOTAL OF PART-II				
	TOTAL OF PARTI & PART-II				