

# **TENDER SPECIFICATION**

**NO: BHE/PW/PUR/WNT2-ENB PEB/1372**

CONSTRUCTION OF SIX NUMBER CLOSED STORAGE SHED FOUNDATION UPTO FFL (15X60M) ETC. INCLUDING ITS INTERNAL/EXTERNAL ELECTRIFICATION, ASSOCIATED TOILET COMPLEX.

**AT**

**1X800 MW**

**WANAKBORI**

**DISTT. – KHEDA**

**GUJARAT.**

## **Volume-II-Price Bid Specification-1372**



**BHARAT HEAVY ELECTRICALS LIMITED**

**(A GOVERNMENT OF INDIA UNDERTAKING)**

**POWER SECTOR - WESTERN REGION**

**SHREEMOHINI COMPLEX**

**345, KINGSWAY - NAGPUR 440 001**

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EARNEST MONEY DEPOSIT: Please see Notice Inviting Tender.

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TENDER SUBMISSION:

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M/s. ....

PLEASE NOTE:

THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

AGM (Purchase)

Place: Nagpur

Date:

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
<b>PRICE BID , SECTION - A</b>							
<b>PRICE BID OF CONSTRUCTION WORK (FOUNDATION TO FFL) OF 6 No. SHED (60MX15M) AT1 X 800 MW WANAKBORI</b>							
Sec. A	1(A)	EARTH WORK EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT SOFT ROCK AND HARD ROCK) FOR FOUNDATIONS RAMPS ETC., AS DIRECTED BY BHEL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	M3	851			
Sec. A	1(B)	EARTH WORK EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH FOR SOFT ROCK AND HARD ROCK (BY MANUAL CHISELING OR BY MECHANICAL MEANS BUT WITHOUT BLASTING) FOR FOUNDATIONS, RAMP ETC., AS DIRECTED BY BHEL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	M3	107			
Sec. A	1(C)	EARTH WORK EXCAVATION FROM 2.0M TO 4.0 M DEPTH IN ALL KINDS OF SOIL (EXCEPT HARD ROCK AND SOFT ROCK) FOR FOUNDATIONS, RAMPS ETC., AS DIRECTED BY BHEL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	M3	54			
Sec. A	1(D)	EXCAVATION IN ALL KINDS OF SOIL INCLUDING SOFT & HARD ROCK ((BY MANUAL CHISELING OR BY MECHANICAL MEANS BUT WITHOUT BLASTING) FROM 2 TO 4M DEPTH FOR SEPTIC TANK AND SOAK PIT, WHEREVER REQUIRED INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	M3	54			
Sec. A	1(E)	SUB GRADE PREPARATION: CUTTING LEVELLING, FILLING WITH EXCAVATED EARTH, WATERING AND CONSOLIDATION FOR SHED AND PLINTH PROTECTION AREA BEFORE LAYING THE PCC WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	M2	6804			
Sec. A	2	DISPOSAL OF EXCAVATED EARTH/ROCK (NOT SUITABLE FOR BACK FILLING) BEYOND INITIAL LEAD OF 50M AND UPTO A MAXIMUM LEAD OF 2 KM OR PART THEREOF INCLUDING LOADING, UNLOADING , TRANSPORTING AND SPREADING AS PER DIRECTION OF BHEL ENGINEER .	M3	475			
Sec. A	3	BACKFILLING OF FOUNDATION ,FLOORS AND PLINTH IN LAYERS NOT EXCEEDING 150MM THICK. INCLUDING WATERING AND CONSOLIDATING ETC. COMPLETE AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.					
Sec. A	A	WITH GOOD EXCAVATED SOIL AVAILABLE FROM THE EARTH WORK.	M3	534			
Sec. A	B	WITH GOOD EARTH BROUGHT FROM OUTSIDE FROM CONTRACTOR'S OWN SOURCE INCLUDING ROYALTY ETC.	M3	1305			
Sec. A	C	WITH GRANULAR MURUM IN LAYERS (THICKNESS OF EACH LAYER SHOULD NOT EXCEED 150MM ) BELOW FOUNDATIONS, AND RAMP AS PER STANDARD SPECIFICATION, RELEVANT DRAWINGS AND INSTRUCTED BY BHEL ENGINEER INCLUDING ROYALTY. CONTRACTOR HAS TO SUBMIT ROYALTY CERTIFICATE FROM CONCERNED STATE GOVT. MINING DEPARTMENT	M3	143			
Sec. A	D	PROVIDING STONE SOLING OF REUIRED THICKNESS AS PER DRAWING BELOW FLOORING, RAMP, COLUMN FOUNDATIONS OF STORAGE SHED ETC. BY USING 80 MM SIZE HARD BROKEN BLACK GRANITE/ QUARTIZITE/ GNEISS/ TRAP STONE METAL INCLUDING GRANULAR MURRUM PACKING, WATERING & COMPACTION ETC COMPLETE.AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER	M3	1450			
Sec. A	4(A)	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 USING OPC GRADE 43/53, 20 MM DOWN SIZE HARD BROKEN GRANITE STONE JELLY FOR FOUNDATION, RAMPS AND WHEREVER REQUIRED INCLUDING SHUTTERING, FINISHING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	M3	74			
Sec. A	4(B)	PROVIDING AND LAYING OF 100 MM THICK PLAIN CEMENT CONCRETE OF MIX 1:3:6 USING OPC GRADE 43/53, 20 MM DOWN SIZE HARD BROKEN GRANITE STONE JELLY WITH TROWEL FINISH FOR PLINTH PROTECTION AND WHEREVER REQUIRED INCLUDING SHUTTERING, FINISHING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	M3	72			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec. A	4(C)	PROVIDING AND LAYING OF <b>100 MM THICK PLANE CEMENT CONCRETE OF MIX 1:2:4</b> USING OPC GRADE 43/53, 20MM DOWN SIZE HARD BROKEN GRANITE STONE JELLY WITH TROWEL FINISH FOR <b>FLOOR, RAMPS WHEREVER REQUIRED</b> INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING AS PER DRAWING AND SPECIFICATION AND DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS.	M3	574			
Sec. A	4(D)	PROVIDING AND LAYING OF <b>RCC MIX 1:1.5:3</b> USING OPC GRADE 43/53, 20MM DOWN SIZE HARD BROKEN GRANITE STONE 20MM DOWN SIZE HARD BROKEN GRANITE STONE JELLY WITH TROWEL FINISH FOR <b>FOUNDATION ,RAFT COLOUM,PLINTH BEAM</b> AND WHEREVER REQUIRED INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING AS PER DRAWING AND SPECIFICATION AND DIRECTED BY BHEL ENGINEER BUT EXCLUDING COST OF REINFORCEMENTS.	M3	372			
Sec. A	5	PROVIDING AND LAYING <b>DPC (DAMP PROOF COURSE) 50MM THICK IN 1:2:4 CEMENT CONCRETE LAYER</b> USING OPC GRADE 43/53AND WITH 6MM DOWN AGGREGATE, INCLUDING FORMWRK, BITUMEN FELT USING CEMENT WITH WATER PROOFING COMPOUND ETC. COMPLETE	M2	212			
Sec. A	6	PROVIDING , CUTTING, BENDING AND FIXING IN POSITION <b>REINFORCEMENT OF VARIOUS DIA. USING HIGH TENSILE TOR STEEL (Fe - 415/500 ) FOR FOUNDATIONS, COLUMNS, BEAMS WHEREVER REQUIRED</b> 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	24			
Sec. A	7 (A)	PROVIDING <b>BRICK WORK IN CM 1:6</b> (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 AND <b>LOCALLY AVAILABLE BURNT CLAY BRICKS</b> (MIN STRENGTH 35 KG/CM <sup>2</sup> ) AS PER DRAWING AND SPECIFICATION FOR FOUNDATION, SUPER STRUCTURE 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.	M3	155			
Sec. A	7(B)	PROVIDING <b>BRICK WORK IN CM 1:6</b> (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 AND <b>FLY ASH LIME BRICKS</b> (FAL - MIN STRENGTH 35 KG/CM <sup>2</sup> ) AS PER DRAWING AND SPECIFICATION FOR FOUNDATION, WALL 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.	M3	39			
Sec. A	8	PROVIDING <b>2MM THICK NEAT CEMENT FINISH USING OPC GRADE 43/53</b> OVER CONCRETE BASE FOR FLOORING, PAVING, PLASTERED SURFACE ETC. INCLUDING CURING & CLEANING AND SCAFOLDING COMPLETE.	M2	5508			
Sec. A	9	PROVIDING <b>PLASTERING WITH CEMENT MORTAR -1:6 (1 CEMENT &amp; 6 COARSE SAND) USING OPC GRADE 43/53</b> OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES ETC. AT ALL LEVELS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.					
Sec. A	A	EXTERNAL PLASTERING - <b>18MM THICK</b>	M2	524			
Sec. A	B	INTERNAL PLASTERING - <b>12MM THICK</b>	M2	276			
Sec. A	10	PROVIDING & APPLYING <b>COLOUR WASH -THREE COATS</b> ON NEWLY PLASTERED EXTERNAL SURFACE OF SHED BY USING BEST <b>SHALE LIME</b> TO GIVE AN EVEN SHADE INCLUDING PREPARING THE SURFACE LIKE CLEANING AND BRUSHING & BROOMING OF WALLS AND IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE INCLUDE COST OF ALL MATERIALS , COLOURING AGENT, BASE COAT OF WHITE WASH, APPROVED ADDESSIVE, SCAFFOLDING AT ALL LEVEL, BRUSH ETC. COMPLETE.	M2	539			
Sec. A	11	SUPPLYING & FIXING IN POSITION <b>MS FOUNDATION BOLTS</b> WITH HEXAGONAL NUTS (3 NOS. NUTS WITH EACH BOLT) IN RCC COLUMNS OF PEB SHED FOUNDATION AS PER DRAWINGS & DIRECTION OF BHEL ENGINEER	MT	4			
Sec. A		<b>TOTAL VALUE OF SECTION-A IN Rs.</b>					

BHEL:PSWR:NAGPUR

RATE SCHEDULE, SECTION B

NAME OF THE WORK : INTERNAL ELECTRIFICATION WORK OF 6 No. SHED (60MX15M) AT1 X 800 MW WANAKBORI

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE	AMOUNT	REMARK
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SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec.B	1	SUPPLYING & INSTALLING <b>POWER DISTRIBUTION BOARD</b> COMPLETE WITH: COMMON BOARD FOR ALL SHEDS. 1) INCOMING MCB TPH 100 AMPS. - 1 NO. 2) OUTGOING MCB TPH 32 AMPS. -3NOS. 3) RCCB DP 25/20 AMPS. - 2NOS. 4) OUTGOING MCB SP 6 AMPS - 6NOS. All RCCBs, MCBs SHALL BE MDS/INDO KOPP MAKE. DISTRIBUTION BOARDS SHALL BE SIEMENS / MDS / INDO KOPP MAKE WITH INTERNAL BUSBARS, INTERNAL WIRING, 2 NOS. EARTHING TERMINALS, EARTH CONNECTIONS, INCLUDING GLANDS, LUGS.	Set	1			
Sec.B	2	SUPPLYING & FIXING <b>WALL MOUNTING TYPE LIGHTING PANELS</b> , EACH WITH : (1) INCOMING MCB TPN -32 AMPS - 1NO. (2) RCCB DP 32 AMPS - 2NOS (3) MCB SP 6AMPS - 30 NOS. All RCCBs, MCBs SHALL BE MDS/INDO KOPP MAKE. LIGHTING PANEL SHALL BE <b>SIEMENS/MDS/INDO KOPP</b> MAKE WITH INTERNAL BUSBARS, 2 NOS. EARTHING TERMINALS, EARTH CONNECTIONS, INCLUDING GLANDS, LUGS & WIRING FROM MAIN DB	Set	6			
Sec.B	3	PROVIDING AND INSTALLING <b>WIRING USING 2.5 SQ.MM</b> COPPER CONDUCTOR THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR COMPUTER ROOM, OFFICE SHED & FOR REST OF SHEDS OPEN AND WHREVER REQUIRED IN PVC CONDUIT OF REQUIRED SIZE.	PER POINT	284			
Sec.B	4	PROVIDING AND INSTALLING <b>WIRING FOR USING 4.0 SQ.MMCOPPER</b> CONDUCTOR THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR COMPUTER ROMM, OFFICE SHED & FOR REST OF SHEDS OPEN AND WHREVER REQUIRED IN PVC CONDUIT OF REQUIRED SIZE.	PER POINT	18			
Sec.B	5	PROVIDING AND INSTALLING <b>WIRING FOR MAINS USING 6.00 SQ.MM</b> COPPER CONDUCTOR OF ISI MAKE. USING CONCEALED TYPE WIRING/PVC CONDUIT OF REQUIRED SIZE.	PER POINT	18			
Sec.B	6	PROVIDING AND INSTALLING <b>WIRING FOR MAINS USING 16.00 SQ.MM</b> COPPER CONDUCTOR OR ISI MAKE USING CONCEALED TYPE WIRING/PVC CONDUIT OF REQUIRED SIZE.	PER POINT	18			
Sec.B	7	PROVIDING AND INSTALLATION OF <b>PLUG POINT OF 5A SOCKET</b> (ANCHOR OR EQUIV.) OUTLET INCLUDING WIRING TERMINATION. THIS INCLUDES TUBE LIGHT FITTINGS ETC. COMPLETE.	NO	18			
Sec.B	8	PROVIDING AND INSTALLATION OF <b>PLUG POINT OF 15A SOCKET</b> (ANCHOR OR EQUIV.) OUTLET INCLUDING WIRING TERMINATION. THIS INCLUDES TUBE LIGHT FITTINGS V	NO	18			
Sec.B	9	PROVIDING AND FIXING <b>ORDINARY TUBELIGHT WITH FRAME</b> OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL. THIS INCLUDES TUBE LIGHT FITTINGS ETC. COMPLETE.	NO.	170			
Sec B	10	PROVIDING AND FIXING CEILING FAN 48" DIAMETER OF APPROVED COMPANY SUCH AS CROMPTON GREEVES OR ANY OTHER STANDARD MANUFACTURER AS DIRECTED BY BHEL THIS INCLUDES ALL ACCESSORIES REQUIRED TO COMPLETE THE WORK OF FAN INSTALLATION.	NO	6			
Sec.B	11	PROVIDING AND FIXING <b>CALLING BELLS</b> (WITH INDICATOR LIGHT)	NO	1			
Sec.B	12	PROVIDING <b>EARTHING PITS WITH 2 " DIA</b> , 2 M LONG GI PIPES WITH FLANGE & GI WIRES WITH CHARCOAL, SALT AND AS PER THE STANDARD PRACTICE FOR ELECTRICAL CONNECTION.RATE SHALL BE INCLUSIVE OF ALL MATERIALS, LABOURS, ETC COMPLETE.	NO	3			
Sec.B	13	PROVIDING & FIXING <b>ALUMINIUM DISPERSIVE LUMINAIRE</b> ENAMELED GREEN AND WHITE WITH CAST ALUMINIUM FLANGE AND NIPPLE SUITABLE FOR USE WITH GLS LAMP, DOME 12" DIAMETER, WITH HANGING BRACKET AND <b>200W GLS LAMP</b> OF CROMPTON OR EQUIVALENT <b>BAJAJ/PHILIPS</b> MAKE, COMPLETE.	Nos.	108			
Sec.B	14	<b>WIRING WITH 2.5 SQ MM</b> ISI MARK COPPER WIRE FOR ABOVE IN PVC CONDUIT ALONG WITH GI EARTH WIRE INCLUSIVE OF ALL MATERIAL, LABOUR ETC. COMPLETE	Per Point	18			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec.B	15	SUPPLY OF CABLES 2 CORE X 10 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 ( PART -I)	RM	300			
Sec.B	16	INSTALLATION OF CABLES 2 CORE X 10 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 ( PART -I) INCLUDING LAYING OF CABLE BELOW GROUND , EXCAVATION OF TRENCH OF 600 MM DEPTH IN ALL KIND OF SOIL, TERMINATION OF CABLES CORES WITH CRIMP TYPE LUGGS, PROVIDING SAND LAYER BELOW/ ABOVE THE CABLE, BRICK LAYING BOTH SIDE /ABOVE THE ABOVE THE CABLE AND BACK FILLING ETC COMPLETE. CABLES ARE TO BE LAID FROM 415 VOLT AC POWER FEEDER PILLAR BOARD BOARD TO LIGHTING POLES & POLE TO POLE	RM	300			
Sec.B	17	SUPPLY OF CABLES 3 -1/2 COREX 35 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 ( PART -I)	RM	180			
Sec.B	18	INSTALLATION OF CABLES 3 -1/2 COREX 35 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 ( PART -I) INCLUDING LAYING OF CABLE BELOW GROUND , EXCAVATION OF TRENCH OF 600 MM DEPTH IN ALL KIND OF SOIL, TERMINATION OF CABLES CORES WITH CRIMP TYPE LUGGS, PROVIDING SAND LAYER BELOW/ ABOVE THE CABLE, BRICK LAYING BOTH SIDE /ABOVE THE ABOVE THE CABLE AND BACK FILLING ETC. CABLES ARE TO BE LAID FROM TRANSFORMER SUB STATION TO 415 VOLT AC DISTRIBUTION BOARD	RM	180			
Sec.B	19	SUPPLY OF CABLES 3 -1/2 CORE X 95 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 ( PART -I)	RM	120			
Sec.B	20	INSTALLATION OF CABLES 3 -1/2 CORE X 95 SQMM ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 ( PART -I) INCLUDING LAYING OF CABLE BELOW GROUND, EXCAVATION OF TRENCH OF 600 MM DEPTH IN ALL KIND OF SOIL, TERMINATION OF CABLES CORES WITH CRIMP TYPE LUGGS, PROVIDING SAND LAYER BELOW/ ABOVE THE CABLE, BRICK LAYING BOTH SIDE /ABOVE THE ABOVE THE CABLE AND BACK FILLING ETC COMPLETE. CABLES ARE TO BE LAID FROM 415 VOLT AC DISTRIBUTION BOARD TO FEEDER PILLAR BOARD , FEEDER PILLAR BOARD TO LIGHTING MAST / TOWER.	RM	120			
Sec.B	21	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	150			
Sec.B	22	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	150			
Sec.B		<b>TOTAL VALUE OF SECTION B IN Rs.</b>				<b>0.00</b>	
<b>CONSTRUCTION OF TOILET COMPLEX (5MX3.6M) AT 1 X 800 MW WANAKBORI</b>							
Sec C	SL.N O	DESCRIPTION OF WORK	UNIT	QTY.	RATE	AMOUNT	REMARK
Sec C	1(A)	EARTH WORK EXCAVATION FROM 0 (ZERO) TO 2 M DEPTH IN ALL KINDS OF SOIL (EXCEPT SOFT ROCK AND HARD ROCK) FOR SEPTIC TANK, SOAK PIT, FOUNDATION, BRICK KERB WALL AND WHEREVER REQUIRED ETC., AS DIRECTED BY BHCL ENGINEER INCLUDING REMOVING THE EXCAVATED MATERIALS UP TO A DISTANCE OF 50M, DEWATERING (BOTH GROUND WATER AS WELL AS RAIN WATER) AND KEEP THE AREA DRY TILL COMPLETION OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	M3	21			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec C	1(E)	SUB GRADE PREPARATION: CUTTING LEVELLING, FILLING WITH EXCAVATED EARTH, WATERING AND CONSOLIDATION WITH 8-10 MT POWER ROLLER TO ACHIVE REQUIRED DENSITY ( 90% OF PROCTOR DENSITY) FOR OFFICE OFFICE COMPLEX AREA, BEFORE LAYING THE PCC WITH ALL T&P, LABOURS, MATERIALS ETC. COMPLETE.	M2	18			
Sec C	2	<b>DISPOSAL</b> OF EXCAVATED EARTH/ROCK (NOT SUITABLE FOR BACK FILLING) BEYOND INITIAL LEAD OF 50M AND UPTO A MAXIMUM LEAD OF 2 KM OR PART THEREOF INCLUDING LOADING, UNLOADING , TRANSPORTING AND SPREADING AS PER DIRECTION OF BHEL ENGINEER .	M3	17			
Sec C	3	BACKFILLING OF RAISED PLATFORM FOR PLACEMENT OF OFFICE , PANTRY AND TOILET BLOCK ETC AND WHEREVER REQUIRED IN REQUIRED THICKNESS (LAYERS NOT EXCEEDING 150MM THICK). INCLUDING WATERING AND CONSOLIDATING WITH 8-10 MT POWER ROLLER ETC. COMPLETE AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.					
Sec C	A	WITH GOOD EXCAVATED SOIL AVAILABLE FROM THE EARTH WORK AND LEAD UP TO 200 M.	M3	9			
Sec C	D	PROVIDING <b>STONE SOLING</b> OF REUIRED THICKNESS AS PER DRAWING FOR FLOORING OF PANTRY AND TOILET BLOCK AND WHEREVER REQUIRED ETC. BY USING 80 MM SIZE HARD BROKEN BLACK GRANITE/ QUARTIZITE/ GNEISS/ TRAP STONE METAL INCLUDING GRANULAR MURRUM PACKING, WATERING & COMPACTION ETC COMPLETE. AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER	M3	5			
Sec C	4	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8USING OPC GRADE 43/53, 20 MM DOWN SIZE HARD BROKEN GRANITE STONE JELLY WITH TROWEL FINISH FOR RAISED PLATFORM , WALK WAY / FOOT PATH OF OFFICE AND WHEREVER REQUIRED ETC. INCLUDING SHUTTERING, FINISHING, CURING, CONSOLIDATION ETC. COMPLETE AS PER STANDARD SPECIFICATIONS AND AS DIRECTED BY BHEL ENGINEER.	M3	7			
Sec C	5	PROVIDING AND LAYING OF RCC MIX 1:2:4 USING OPC GRADE 43/53, 20MM DOWN SIZE HARD BROKEN GRANITE STONE AGGREGATE FOR ROOF SLAB OF PANTRY AND TOILET BLOCK , SLAB OF SEPTIC TANK ETC AND WHREVER REQUIRED AS PER DRAWING AND SPECIFICATION AND DIRECTED BY BHEL ENGINEER INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING BUT EXCLUDING COST OF REINFORCEMENTS.	M3	5			
Sec C	6	PROVIDING AND LAYING <b>DPC (DAMP PROOF COURSE) 50MM THICK</b> IN 1:2:4 CEMENT CONCRET LAYER USING OPC GRADE 43/53AND WITH 6MM DOWN AGGREGATE, INCLUDING FORMWORK, BITUMEN FELT USING CEMENT WITH WATER PROOFING COMPOUND ETC. COMPLETE	M2	4			
Sec C	7	PROVIDING , CUTTING, BENDING AND FIXING IN POSITION <b>REINFORCEMENT</b> OF VARIOUS DIA. USING HIGH TENSILE TOR STEEL (Fe - 415/500 ) FOR ROOF SLAB OF PANTRY AND TOILET BLOCK , SLAB OF SEPTIC TANK ETC AND FOR WHREVER REQUIRED 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	1			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec C	8 (A)	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 AND <b>FLY ASH LIME BRICKS</b> (FAL - MIN STRENGTH 35 KG/CM <sup>2</sup> ) AS PER DRAWING AND SPECIFICATION FOR FOUNDATION, WALL 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.	M3	30			
Sec C	12(A)	PROVIDING AND FIXING OF BEST <b>QUALITY COUNTRY WOOD DOORS COMPRISING OF FRAME 95 X 70MM AND 38/40MM THICK FLUSH SHUTTERS OF SOLID CORE TYPE</b> 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.	M2	3			
Sec C	12(B)	PROVIDING AND FIXING 24 MM THICK BEST QUALITY <b>PVC DOORS OF SINTEX MAKE</b> OR APPROVED EQUIVALENT FOR TOILETS INCLUDING PVC FRAME OF SIZE 48MM X 40MM, ALL FITTINGS, FIXTURES, FRAMES, HOLDFAST ETC. COMPLETE AS PER SPECIFICATIONS AND INSTRUCTION OF BHEL ENGINEER.	M2	3			
Sec C	13	SUPPLING, MANUFACTURING AND FIXING IN POSITION OF <b>STEEL WINDOWS AND VENTILATORS INCLUDING FRAMES &amp; IRON BARRED</b> (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.					
Sec C	A	STEEL WINDOWS	M2	3			
Sec C	B	STEEL LAUVERED VENTILATORS	M2	2			
Sec C	16	SUPPLYING AND FIXING OF <b>WHITE CERAMIC TILES</b> OF REQUIRED SIZES LAID OVER THE BED OF CM - 1:4 (1 CEMENT & 4 COARSE SAND) USING OPC GRADE 43/53 FOR PANTRY ROOM , TOILET AND WHEREVER REQUIRED ETC. INCLUDING PEREPARATION OF BASE LAYING UNDERBED, FINISHING AND ROUNDING CORNERS AND JUNCTIONS, CURING ETC. COMPLETE AS PER DRAWINGS AND SPECIFICATIONS.					
Sec C	A	FLOORING (5.0MM TO 6.0MM THICK OF SIZE 300MM X 300MM)	M2	20			
Sec C	B	DADO (5MM TO 6MM THICK OF SIZE 150MM X 150MM) - 1.5M HEIGHT FROM FINISHED FLOOR LEVEL IN TOILET	M2	29			
Sec C	17	PROVIDING <b>PLASTERING WITH CEMENT MORTAR -1:6</b> (1 CEMENT & 6 COARSE SAND) USING OPC GRADE 43/53 OVER BOTH INTERNAL AND EXTERNAL FACES OF BRICKWORK AND CONCRETE SURFACES, PARTITION WALLS ETC. AT ALL LEVELS INCLUDING PREPARING THE SURFACE, RAKING JOINTS, SCAFFOLDING, CURING, COST OF ALL MATERIALS, LABOUR ETC. COMPLETE.					
Sec C	A	EXTERNAL PLASTERING - 18MM THICK	M2	77			
Sec C	B	INTERNAL PLASTERING -12MM THICK	M2	110			
Sec C	C	<b>CEILING PLASTERING -6MM THICK WITH CEMENT MORTAR -1:4</b> (1 CEMENT & 4 FINE SAND)	M2	18			
Sec C	18(A)	<b>PROVIDING &amp; APPLYING COLOUR WASH -THREE COATS</b> ON NEWLY PLASTERED EXTERNAL SURFACE BY USING BEST SHALE LIME TO GIVE AN EVEN SHADE INCLUDING PREPARING THE SURFACE LIKE CLEANING AND BRUSHING & BROOMING OF WALLS AND IN ACCORDANCE WITH STANDARD SPECIFICATION. RATE INCLUDE COST OF ALL MATERIALS , COLOURING AGENT, BASE COAT OF WHITE WASH,APPROVED ADDESSIVE, SCAFFOLDING AT ALL LEVEL, BRUSH ETC. COMPLETE.	M2	57			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec C	18(C)	<b>PROVIDING &amp; APPLYING TO INTERIOR SURFACES</b> 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.	M2	63			
Sec C	19	PROVIDING AND FIXING OVER HEAD HYDRAULIC DOOR CLOSER (HEAVY DUTY) OF APPROVED BRAND AND SIZE ON NECESSARY DOORS AS DIRECTED BY BHEL ENGINEER.	NO.	3			
Sec C	20	PROVIDING AND FIXING <b>WHITE GLAZED VITREOUS CHINA WASH HAND BASIN</b> 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.	NO	1			
Sec C	21	PROVIDING AND FIXING <b>EUROPEAN TYPE WHITE GLAZED VITREOUS CHINA W.C.PAN</b> WITH UPVC SEAT AND LID WITH CHROMIUM PLATED BRASS HINGES AND RUBBER BUFFERS INCLUDING UPVC VENT PIPE (APPROX. 2M. HT. WITH COWL)) ON THE OUTSIDE FACE OF WALL, 10 LITRE PVC LOW LEVEL FLUSHING CISTERN WITH ALL FITTINGS, PIPE AND STOP COCK, BRACKETS FOR FIXING CISTERN, 32 MM DIA. UPVC FLUSH PIPE WITH FITTINGS AND CLAMPS, 20 MM DIA. UPVC OVERFLOW PIPE, FLOAT VALVES, CUTTING AND MAKING GOOD TO THE WALLS AND FLOORS, TESTING ETC. COMPLETE. PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE.	NO	2			
Sec C	22	PROVIDING AND FIXING IN POSITION OF WHITE GLAZED <b>EARTHENWARE</b> 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.	NO	3			
Sec C	23	PROVIDING AND FIXING IN POSITION OF <b>HIGH CLASS BELGIUM OR SUPERIOR MAKE BEVELLED EDGE MIRROR OF SIZE 450MM X 550MM X 6MM WITH 16 MM DIA &amp; 550MM LENGTH NICKEL PLATED</b> TOWEL ROD MOUNTED ON 6 MM THICK PLYWOOD OR PLASTIC FOLDER SHEET. RATE TO INCLUDE COST OF ALL MATERIALS, LABOUR FOR FIXING THE WOODEN PLUGS WITH CP BRASS SCREWS AND WASHERS ETC. COMPLETE.	NO	1			
Sec C	24	PROVIDING AND FIXING IN POSITION OF <b>15 MM DIA CONCUSSION PUSH BUTTON TYPE BRASS/ GUN MATEL SELF CLOSING TAP INCLUDING NECESSARY SOCKET,TESTING ETC COMPLETE FOR URINALS AS DIRECTION OF BHEL ENGINEER.</b>	NO	2			
Sec C	25	PROVIDING AND FIXING IN POSITION OF <b>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)</b> AS PER STANDARD SPECIFICATION. RATE INCLUDES JOINTING MATERIALS, SOCKETS, UNION NUT, TESTING, LABOURS FOR CARRYING AND FIXING ETC. COMPLETE.	NO	3			
Sec C	26	PROVIDING AND FIXING IN POSITION OF <b>25 MM DIA GATE VALVE INCLUDING ALL NECESSARY FITTING &amp; FIXTURE</b> ETC. COMPLETE AS PER STANDARD SPECIFICATION.	NO	1			
Sec C	27	PROVIDING AND FIXING IN POSITION OF <b>40 MM DIA GATE VALVE INCLUDING ALL NECESSARY FITTING &amp; FIXTURE</b> ETC. COMPLETE AS PER STANDARD SPECIFICATION.	NO	1			
Sec C	28	PROVIDING AND FIXING IN POSITION OF <b>15 MM DIA NOMINAL SIZE SCREW DOWN TYPE CHROMIUM PLATES BRASS STOP COCKS OF APPROVED MAKE AND QUALITY (LEADER MAKE OR EQUIVALENT)</b> AS PER STANDARD SPECIFICATION. RATE INCLUDES COST OF JOINTING MATERIALS, SOCKETS, UNION NUT, TESTING, LABOURS FOR CARRYING AND FIXING ETC. COMPLETE	NO	5			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec C	29	PROVIDING AND FIXING IN POSITION OF 100MM X 50MM HCI "NAHANI" TRAP WITH HCI GRATINGS, BENDS, CONNECTING PIECES OF CI PIPE UPTO OUTSIDE FACE OF THE WALL. MAKING GOOD THE DAMAGED SURFACE, TESTING ETC COMPLETE AS PER STANDARD SPECIFICATIONS. RATE TO BE ALL INCLUSIVES.	NO	4			
Sec C	30	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.	NO	2			
Sec C	31	PROVIDING AND LAYING WITH REQUIRED GRADING & LEVELING IN TRENCHES MEDIUM GRADE (TYPE) GALVANISED IRON (GI) PIPE HAVING EMBOSSED ISI MARK ON IT, OF REQUIRED DIAMETER WITH SCREWED, SOCKETS, JOINTS, NECESSARY GALVANISED IRON FITTINGS SUCH AS SOCKETS, BACK NUTS, ELBOWS, BENDS, TEES, REDUCERS, ENLARGERS, PLUGS, CLAMPS ETC. INCLUDING ALL NECESSARY EXCAVATION, BACK FILLING, FIXING WITH CLAMPS, TESTING ETC. COMPLETE. (PRIOR APPROVAL OF SAMPLE AND BRAND BY BHEL ENGINEER IS NECESSARY BEFORE USE.)					
Sec C	A	40MM DIA	RM	100			
Sec C	B	25MM DIA	RM	50			
Sec C	C	20MM DIA	RM	25			
Sec C	D	15MM DIA	RM	20			
Sec C	32	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 C	A	100MM DIA STONWARE PIPELINE INCLUDING ALL SPECIALS COMPLETE.	RM	50			
Sec C	33	PROVIDING AND FIXING IN POSITION OF PVC OVERHEAD WATER TANK OF SYNTEX OR ANY APPROVED MAKE OF FOLLOWING LITRE CAPACITY WITH PROVISION FOR OVERFLOW ARRANGEMENT VALVES, INLET AND OUTLET ETC. COMPLETE.					
Sec C	A	1000 LITRE CAPACITY	NO	1			
Sec C	34	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 METALET. COMPLETE.					
Sec C	A	600X450X450 WITH C.I COVER	NO	2			
Sec C	B	900X600X450 WITH C.I COVER	NO	3			
Sec C	35	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 C	A	1050MM x 750MM	Nos.	1			
Sec C	36	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).	NO.	1			
Sec C	37	PROVIDING & FIXING OF LIQUID SOAP DISPENSER AT ALL WASH BASIN LOCATION.	NO.	2			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec C	38	PROVIDING & FIXING IN POSITION OF CI VENT PIPE OF DIA. 100MM (APPROX. HT. 3M ) IN SEPTIC TANK. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC.	RM	4			
Sec C	39	PROVIDING AND FIXING OF METALLIC <b>DECORATIVE TYPE HEAVY DUTY PELMET ROD</b> FOR DOORS AND WINDOWS. RATE TO INCLUDE ALL NECESSARY FITTING & FIXTURE, LABOUR ETC. AS APPROVED BY BHEL ENGINEER.	EACH	2			
Sec C	44	PROVIDING AND FIXING 18MM THICK BEST QUALITY <b>SINGLE PIECE GRANITE SLAB</b> OF REQUIRED SHAPE AND COLOUR FOR FIXING SS SINK FOR KITCHEN COUNTER OF PANTRY BLOCK .CUT OUT FOR SINK SHALL BE MADE AS PER THE DIMENSION.COST INCLUSIVE OF MAKING OPENING, POLISHING CUT PICES/DROP/FACIA AND REQUIRED FINISHING COMPLETE.	Sqm.	4			
Sec C	45	PROVIDING ANG MAKING EDGE MOULDING AND NOSING TO 18MM THICK <b>GRANITE STONE SLAB</b> , COUNTERS,VANITIES AND WHEREVER REQUIRED.INCLUDING POLISHING TO EDGE TO GIVE HIGH GLOSS FINISH ETC. COMPLETE AS PER DESIGN APPROVED BY BHEL ENGINEER.	Rmt	4			
Sec C	46	PROVIDING & FILLING IN SOAK PIT WITH BRICK BATS 40-80MM INCLUDING SAND PACKING ETC. COMPLETE, AS PER STANDARD SPECIFICATION AND INSTRUCTED BY BHEL ENGINEER.	m3	3			
		<b>TOTAL VALUE OF SECTION-C IN Rs.</b>					
<b>ELECTRIFICATION OF TOILET COMPLEX (5MX3.6M) AT 1 X 800 MW WANAKBORI</b>							
<b>BHEL.PSWR.NAGPUR</b>							
<b>RATE SCHEDULE, SECTION - D</b>							
Sec D	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE	AMOUNT	REMARK
Sec D	1	SUPPLY OF 415 VOLT AC , 3 PHASE /FOUR WIRE <b>POWER FEEDER PILLAR BOARD , BOARD</b> 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 THICHNESS NOT LESS THAN 1.6 MM AND SUITABLE FOR OUT DOOR INSTALLATION, HINGED DOOR WITH LOCKING ARRAGEMENT , BASE FRAME , SHOULD HAVE SLOPPED CANOPY, DULY PAINTED WITH FIRST COAT WITH PRIMER AND TWO COATS OF SYNTHETIC ENAMEL PAINT ( INTERIOR WITH WHITE PAINT AND EXTERIOR WITH SMOKE GREY AS PER IS), SUITABLE STOOL MADE OUT OF MS STRUCTURE OF 1.2 METER HIGH FOR MOUNTING OF PANEL WITH ANCHORING ARRAGEMENT AT FOUNDATION .	Set	1			
Sec D	2	<b>PROVIDING AND INSTALLING WIRING USING 2.5 SQ.MM COPPER CONDUCTOR</b> THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR WHRERVER REQUIRED AS PER INSTRUCTED BY BHEL ENGINEER IN PVC CONDUIT OF REQUIRED SIZE.	PER POINT	5			
Sec D	3	<b>PROVIDING AND INSTALLING WIRING FOR USING 4.0 SQ.MM COPPER CONDUCTOR</b> THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR WHRERVER REQUIRED AS PER INSTRUCTED BY BHEL ENGINEER IN PVC CONDUIT OF REQUIRED SIZE.	PER POINT	5			
Sec D	4	<b>PROVIDING AND INSTALLING WIRING FOR USING 6.0 SQ.MM COPPER CONDUCTOR</b> THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR WHRERVER REQUIRED AS PER INSTRUCTED BY BHEL ENGINEER IN PVC CONDUIT OF REQUIRED SIZE.	PER POINT	4			
Sec D	5	<b>PROVIDING AND INSTALLING WIRING FOR USING 16.0 SQ.MM COPPER CONDUCTOR</b> THROUGH PVC CONDUIT OF REQUIRED SIZE WITH ACCESSORIES AND FIXTURES .WIRING SHALL BE CONCEALED TYPE FOR WHRERVER REQUIRED AS PER INSTRUCTED BY BHEL ENGINEER IN PVC CONDUIT OF REQUIRED SIZE.	PER POINT	4			

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
Sec D	6	<b>PROVIDING AND INSTALLATION OF PLUG POINT OF 5A SOCKET</b> (ANCHOR OR EQUIV.) OUTLET FOR WHRERVER REQUIRED AS PER INSTRUCTED BY BHEL ENGINEER INCLUDING WIRING TERMINATION.	NO	4			
Sec D	7	<b>PROVIDING AND INSTALLATION OF PLUG POINT OF 15A SOCKET</b> (ANCHOR OR EQUIV.) OUTLET FOR WHRERVER REQUIRED AS PER INSTRUCTED BY BHEL ENGINEER INCLUDING WIRING TERMINATION.	NO	4			
Sec D	8	<b>PROVIDING AND FIXING ORDINARY TUBELIGHT WITH FRAME</b> OF STANDARD MANUFACTURER LIKE PHILIPS/BAJAJ OR EQUIVALENT AS APPROVED BY BHEL. THIS INCLUDES TUBE LIGHT FITTINGS , ALL NECESSARY ELECTRICAL FITTINGS ( STARTER AND CHOCK ETC) ETC. COMPLETE.	NO.	7			
Sec D	9	<b>PROVIDING AND FIXING EXHAUST FANS 12" DIAMETER</b> WITH FRAME OF STANDARD MANUFACTURER LIKE CROMPTAN GREEVES OR EQUIVALENT AS APPROVED BY BHEL.	NO.	3			
Sec D	10	<b>PROVIDING AND FIXING CEILING FAN 48" DIAMETER</b> OF APPROVED COMPANY SUCH AS CROMTAN GREEVES OR ANY OTHER STANDARD MANUFACTURER AS DIRECTED BY BHEL.	NO	2			
Sec D	12	SUPPLYING, INSTALLATION & COMMISSIONING OF <b>SODIUM VAPOUR LAMP STREET LIGHT FITTING 150 WATT SSG-2315 IH OF CROMPTON OR SIMILAR PHILIPS MAKE, COMPLETE WITH ONE PIECE CANOPY, INTEGRAL CONTROL GEAR</b> COMPRISING OF COPPER WOUND CHOKE , IGNITOR , HPF CAPACITOR, HPSV LAMP AND SUITABLE FOR DIRECTLY SLIPPING OVER LIGHT MOUNTING BRACKET MADE OUT OF 40 MM OD PIPE AND SUITABLE FOR LAMPS, CONTROL GEAR BOX CABLING & TERMINATION OF ITEMS SUPPLIED (TO BE MOUNTED ON 9 MTR POLE - ITEM NO. 2).	NOS.	2			
Sec D	13	SUPPLY AND ERECTING <b>STEEL TUBULAR SWAGED POLES, 9 MTR LONG</b> 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 : I) DRILING 20 MM DIA HOLE AT ABOUT 2.5 MTR FROM GROUND LEVEL FOR WIRE LEADS FROM JUNCTION BOX TO LIGHT FIXTURE . II) DRILING 15MM DIA HOLES AT ABOUT 0.7 AND AT 2.5 MTR FROM GROUND LEVEL AND WELDING 12 MM NUTS FOR USING A 12 MM G.I BOLT FOR FASTENING EARTH CONDUCTERS. III) WELDING REQUIRED HOLES FOR FIXING POLE CAP OF STREET LIGHT BRACKET. IV) WELDING DIAMETRALLY 10 MM M.S. ROUND 30 MM BELOW POLE TOP EDGE FOR CLIPPING WIRE LEADS .	NOS.	1			
Sec D	15	SUPPLY OF <b>CABLES 3 -1/2 COREX 35 SQMM</b> ALUMINIUM ARMoured PVC INSULATED CABLE (THREE AND HALF CORE) CONFIRMING TO IS 1554 ( PART -J)	RM	150			
Sec D	16	INSTALLATION OF <b>CABLES 3 -1/2 COREX 35 SQMM</b> ALUMINIUM ARMoured PVC INSULATED CABLE CONFIRMING TO IS 1554 ( PART -J) 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	150			
<b>Sec D</b>		<b>GRAND TOTAL SEC-D</b>					

SEC.	SL.NO	DESCRIPTION OF WORK	UNIT	QTY.	RATE in Figure (In Rs)	RATE IN WORDS (In Rs)	AMOUNT (In Rs)
		<b>TOTAL SUMMARY</b>			<b>RATE in Figure (In Rs)</b>	<b>RATE in words (In Rs)</b>	
		<b>Total of Section A - CONSTRUCTION WORK (FOUNDATION TO FFL) OF 6 No. SHED</b>					
		<b>Total of Section B- INTERNAL AND EXTERNAL ELECTRIFICATION FOR THE ABOVE</b>					
		<b>Total of Section C -CONSTRUCTION OF TOILET COMPLEX</b>					
		<b>Total of Section D-Electrification of Toilet Complex</b>					
		<b>GRAND TOTAL IN Rs. (In Figures)</b>					
		<b>GRAND TOTAL IN Rs. (In Words)</b>					

**Note:**  
 1) SUPER STRUCTURE & STRUCTURAL WORK of Closed shed is not considered under the scope of this Tender.