

DESIGN, SUPPLY, MANUFACTURING, RECEIPT AT SITE AND ERECTION OF PRE ENGINEERED AND RE-ERECTABLE TYPE CLOSED SHED (WITH OFFICE) AND CLOSED SHED INCLUDING STRUCTURAL AND SHEET CLADDING WORKS FOR CONTROL CENTRE INSTRUMENTATION PACKAGE FOR KAKRAPAR ATOMIC POWER PROJECT UNIT 3 AND 4

Tender Ref: BHEL/EDN/CCIP/KAPP-3&4/STORES/01 Dated: 22/10/2013

CORRIGENDA

Ref:	Description	As mentioned in Tender	Corrections (to be read as)	Remarks
Under NIT-PQC (Annexure-1) – clause B at Page 13 of 47	Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT (if applicable)	(Shall be applicable for bid evaluation from 1st Jan-2011 onwards)	Not Applicable	This information is already indicated in the Checklist (Annexure-2) in NIT at Page 15 of 47.
Under NIT-PQC (Annexure-1) – clause C at Page 13 of 47	Technical .1 Bidder must have successfully executed Design, Supply & Erection of Factory Made Pre Fabricated Structural Sheds (PEB Sheds) in the last seven years as on 31/10/2010 as below.	Last seven years as on 31/10/2010	Last seven years as on 30.09.2013	
Under NIT Vol-II Price BID Section: At Page 3 of 6	Bill Of Quantity (BOQ)	Bidder shall prepare the Bill of Quantity (BOQ) for total scope of work. Bidder shall submit unpriced BOQ with the Technical Bid and Priced BOQ along with Price Bid	Bidder to confirm that Bill of Quantity (BOQ) for total scope of work (as attached) has been considered in the scope.	
<p>NOTE: 1) Bidders who have already submitted Price Bid, same will be considered unless revised Price Bid is submitted. 2) BOQ is attached 3) Offers to be submitted before 14:00Hrs on 26/12/2013 and technical Bid will be opened on 26/12/2013 at 14:30 Hrs</p>				

Tender Specification No.: BHE/EDN/CCIP/KAPP-3&4/01
BILL OF QUANTITY (BOQ)

A. CLOSED SHED (WITH OFFICE)15MX60M X6M

SR. NO.	DESCRIPTION	UNIT	QTY.
1	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. OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM	160
2	FILLING USING SELECTED EXCAVATED MATERIALS IN FOUNDATIONS& FLOOR INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&PS ETC. COMPLETE.	CUM	240
3	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 GRANITE STONE JELLY FOR FOUNDATION , RAMPS, ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&PS ETC. COMPLETE.	CUM	15
4	PROVIDING AND LAYING RE-INFORCED CEMENT CONCRETE M25 FINISH FOR FOOTING,PEDASTAL,PLINTH BEAM,RAMP INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING.	CUM	52
5	PROVIDING AND LAYING OF 100 MM THICK PLAIN CEMENT CONCRETE OF MIX 1:2:4 FOR FLOOR, INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING.	CUM	90
6	FORM WORK INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	SQM	250
7	PROVIDING , CUTTING, BENDING AND FIXING IN POSITION REINFORCEMENT OF VARIOUS DIA. USING HIGH TENSILE TOR STEEL (Fe- 415/500) FOR FOUNDATIONS, COLUMNS, BEAMS ,RAMP INCLUDING COST OF ALL MATERIALS, LEADS, LIFT, LABOURS ETC COMPLETE.	MT	3.2
8	PROVIDING BRICK WORK IN CM 1:5 (1 CEMENT & 6 COARSE SAND) LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 50 KG/CM2) FOR FOUNDATION, SUPER STRUCTURE ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING , AT ALL ELEVATIONS AND LEVELS , RAKING OUT JOINTS ETC.	CUM	32
9	PROVIDING PLASTERING WITH 12MMThick CEMENT MORTAR -1:6 (1 CEMENT & 6 COARSE SAND) 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.	SQM	325
10	PROVIDING AND APPLYING CEMENT PAINT INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	SQM	325
11	PROVIDING AND FIXING FLOOR TILES FOR CONFERENCE ROOM,STORE IN-CHARGE ROOM,STORE ROOM ,REST ROOM INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&PS ETC. , INCLUDING WALL DADOO OF 1.5M HEIGHT (APPROVED MAKE). COMPLETE.	SQM	113
12	SUPPLYING AND FIXING WITH POINT WIRING FOLLOWING ITEMS AS PER DRAWING		

SR. NO.	DESCRIPTION	UNIT	QTY.
	BULK HEAD FIXER	NO.	1
	HPSV LIGHT FIXER	NO.	15
	EXHAUST FAN	NO.	2
	A/C SOCKET	NO.	4
	5AMP SOCKET	NO.	12
	16 AMP	NO.	4
	2X2 CFL	NO.	2
	DISTRIBUTION BOARD	NO.	1
	EARTHING PITS	NO.	2
	SWITCH-1 GANG	NO.	1
	SWITCH-4 GANG	NO.	2
	SWITCH-5 GANG	NO.	1
13	SUPPLYING AND FIXING MS DOOR FOR CONFERENCE ROOM,STORE IN-CHARGE ROOM,STORE ROOM , REST ROOM	NO.	4
14	PROVIDING AND FIXING INSULATED WALL PANELING FOR CONFERENCE ROOM,STORE IN-CHARGE ROOM,STORE ROOM ,REST ROOM	SQM	200
15	PROVIDING AND FIXING FALSE CEILING FOR CONFERENCE ROOM,STORE IN-CHARGE ROOM,STORE ROOM ,REST ROOM	SQM	92
16	STORE INCHARGE ROOM		
	TABLE WITH CHAIRS (AS PER CLAUSE NO. 2.3.2(a))	NO.	1
	FILE CABINET AS PER CLAUSE NO. 2.3.2(b))	NO.	1
	STEEL FILE/BOOK RACK (AS PER CLAUSE NO. 2.3.2(b))	NO.	1
	AIR CONDITIONER(AS PER CLAUSE NO. 2.3.2(c))	NO.	1
	WALL FAN	NO.	1
	2x2 CFL	NO.	2
17	CONFERENCE ROOM		
	CONFERENCE TABLE WITH 04 NOS. CHAIR(AS PER CLAUSE NO. 2.3.2.2(a))	NO.	1
	FILING CABINET(AS PER CLAUSE NO. 2.3.2.2(b))	NO.	2
	STEEL FILE RACK (AS PER CLAUSE NO. 2.3.2.2(c))	NO.	1
	AIR CONDITIONER(AS PER CLAUSE NO. 2.3.2.2(d))	NO.	2
	Wall Fan	NO.	2
	TUBE LIGHTS	NO.	2
18	STORE ROOM		
	TOOL STORAGE CABINET (AS PER CLAUSE NO. 2.3.2.3(b))	NO.	1
	STEEL BIN SHELVING SYSTEM WITH 30 BINS (AS PER CLAUSE NO. 2.3.2.3(c))	NO.	1
	AIR CONDITIONER(AS PER CLAUSE NO. 2.3.2.3(a))	NO.	1
	WALL FAN	NO.	1
	TUBE LIGHTS	NO.	2
19	REST ROOM (AS PER CALUSE 2.3.3)		
	SUPPLY AND FIXING EWC WITH ALL THE REQUIRED FITTING ETC. COMPLETE	NO.	1
	SUPPLY AND FIXING URINAL WITH ALL THE REQUIRED FITTING ETC. COMPLETE	NO.	2
	SUPPLY AND FIXING URINAL WITH TOWEL ROAD, SOAP DESPENCER, GLAZED MIRROR, ALL THE REQUIRED FITTINGS ETC. COMPLETE	NO.	1
20	PROVIDING AND FIXING RO FILTER (AS PER CLAUSE 2.3.1 (f))	NO.	1
21	PROVIDING AND FIXING WASH BASIN	NO.	1
STRUCTURAL STEEL , ROOFING AND WALL CLADDING			
1	DESIGN, SUPPLY , TRANSPORTATION, FABRICATION,ERECTION OF PRE- FABRICATED TYPE STRUCTURAL STEEL & SIDE RACK WITH PAINTING ETC. COMPLETE AS PER REQUIRMENTS.(AS PER CLAUSE 2.2.3)	MT	21

SR. NO.	DESCRIPTION	UNIT	QTY.
2	SUPPLYING AND FIXING GALVALUME SHEET FOR ROOFING AND WALL CLADDING (AS PER CLAUSE 2.2.4)	SQM	1860
3	PROVIDING AND FIXING VENTILATER(900MMX1200MM)	NOS.	20
4	PROVIDING AND FIXING SLIDING DOOR(5MX4.5M)	NO.	1
5	PROVIDING AND FIXING SINGLE DOOR	NO.	1
6	PROVIDING AND FIXING GUTTER AS PER SPECIFICATION	RM	120
7	PROVIDING AND FIXING CONNECTED DOWNTAKE PIPE	RM	120

B. CLOSED SHED (15MX48M X6M)

SR. NO.	DESCRIPTION	UNIT	QTY.
1	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. OF ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM.	132
2	FILLING USING SELECTED EXCAVATED MATERIALS IN FOUNDATIONS & FLOOR INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&PS ETC. COMPLETE.	CUM.	122
3	PROVIDING AND LAYING OF PLAIN CEMENT CONCRETE OF MIX 1:4:8 GRANITE STONE JELLY FOR FOUNDATION, RAMPS, ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	CUM.	13
4	PROVIDING AND LAYING RE-INFORCED CEMENT CONCRETE M25 FINISH FOR FOOTING,PEDESTAL,PLINTH BEAM,RAMP INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING.	CUM.	45
5	PROVIDING AND LAYING OF 100 MM THICK PLAIN CEMENT CONCRETE OF MIX 1:2:4 FOR FLOOR, INCLUDING MECHANICAL MIXING, VIBRATION, CURING, FORM WORK & CENTERING.	CUM.	72
6	FORM WORK INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	SQM.	205
7	PROVIDING , CUTTING, BENDING AND FIXING IN POSITION REINFORCEMENT OF VARIOUS DIA. USING HIGH TENSILE TOR STEEL (Fe- 415/500) FOR FOUNDATIONS, COLUMNS, BEAMS ,RAMP INCLUDING COST OF ALL MATERIALS, LEADS, LIFT, LABOURS ETC COMPLETE.	MT	2.8
8	PROVIDING BRICK WORK IN CM 1:6 (1 CEMENT & 6 COARSE SAND) LOCALLY AVAILABLE BURNT CLAY BRICKS (MIN STRENGTH 50 KG/CM2) FOR FOUNDATION, SUPER STRUCTURE ETC. INCLUDING COST OF ALL MATERIALS, LABOUR, SCAFFOLDING, CURING , AT ALL ELEVATIONS AND LEVELS , RAKING OUT JOINTS ETC.	CUM.	27
9	PROVIDING PLASTERING WITH 12MM THICK CEMENT MORTAR -1:6 (1 CEMENT & 6 COARSE SAND) 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.	SQM.	270
10	PROVIDING AND APPLYING CEMENT PAINT INCLUDING ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	SQM.	270
11	SUPPLYING AND FIXING WITH POINT ,WIRING OF FOLLOWING ITEMS AS PER REQUIRMENTS		
	BULK HEAD FIXER	NO.	1
	EXHAUST FAN	NO.	2

SR. NO.	DESCRIPTION	UNIT	QTY.
	LIGHT FIXTURE (AS PER DRAWING)	NO.	14
	DISTRIBUTION BORD	NO.	1
12	PROVIDING ALL EXTERNAL CABLING FOR ELECTRICAL SUPPLY OF CLOSED SHED,CLOSED SHED WITH OFFICE, SECURITY CABIN FROM 3PHASE-415VSOURCE AT A DISTANCE ABOUT 100METERS	RM	100

SUPPLYING & FIXING STRUCTURAL & SHEETING WORK

1	DESIGN ,SUPPLY , TRANSPORTATION, FABRICATION, ERECTION OF PRE- FABRICATED TYPE STRUCTURAL STEEL & SIDE RACK WITH PAINTING ETC. COMPLETE AS PER REQUIRMENTS.(AS PER CLASE 2.2.3)	MT	18
2	SUPPLYING AND FIXING GALVALUME SHEET FOR ROOFING AND WALL CLADDING (AS PER CLASE 2.2.4)	SQM.	1520
3	PROVIDING AND FIXING VENTILATOR (900MM X 1200MM)	NO.	16
4	PROVIDING AND FIXING SLIDING DOOR(5MX4.5M)	NO.	1
5	PROVIDING AND FIXING SINGLE DOOR	NO.	1
6	PROVIDING AND FIXING GUTTER AS PER SPECIFICATION	RM	96
7	PROVIDING AND FIXING CONNECTED DOWNTAKE PIPE	RM	96

C. EXTERNAL WORKS (FENCING,GATES & PAVEMENT)

SR. NO.	DESCRIPTION	UNIT	QTY.
1	PROVIDING & FILLING OF COMPACTED THICK GRANULAR MURUM IN LAYERS (THICKNESS OF EACH LAYER SHOULD NOT EXCEED 200MM) ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&Ps ETC. COMPLETE.	SQM	600
2	SUPPLYING AND FIXING INTERLOCKED TILES, ALL THE WORKS, LABOURS, MATERIALS AND REQUIRED T&PS ETC. COMPLETE.	SQM	600
3	PROVIDING AND FIXING BARBED WIRE FENCING, COST OF FOUNDATION & POSTS,PAINTING COST OF ALL MATERIALS, LABOUR, TRANSPORT ETC.COMPLETE.	RM	125
4	SUPPLY, FABRICATION, AND FIXING IN POSITION OF MS GATES INCLUDING COST OF FOUNDATION & POSTS, PAINTING, COST OF ALL MATERIALS, LABOUR, TRANSPORT ETC. COMPLETE.	NO.	1
5	SUPPLYING & FIXING IN POSITION OF RCC HUME PIPE OF NP2 WHEREVER DRAIN CROSSES THE ROADS INCLUDING ALIGNING,LEVELLING ETC. INCLUDING COLLAR JOINTS,ENCASEMENT WITH CONCRETE		
a	400 DIA	NO.	2
b	600 DIA	NO.	4
6	SECURITY CABIN (AS PER CLAUSE NO.2.5.3.)	NO.	1