

Ref: BHE/PW/PUR/NTPRT-CABLING U2/2909 /Corg 02

Dt: 23/02/2024

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ALL BIDDERS

Sub: Corrigendum-02: Issuance of amendment, Issuance of Revised BOQ & Revised Excel Sheet for calculation Purpose

Job: Cabling Package of Unit#2 At 3 X 800 MWPVUNL PROJECT PATRATU, DISTRICT-RAMGARH STATE- JHARKHAND

Tender Specification Number: BHE/PW/PUR/NTPRT-CABLING U2/2909

NIC Tender ID: 2024_BHEL_32462_1

Bidders to kindly take note of the following:

AA) Bidders to take note of the following amendment:

SI No	Refernce	Existing clause	Amended clause/ additional Clause
1	Chapter-II, Under Clause no. 2.3, Additional SI No. 2.3.61 added		Additional clause Flexible conduit in ESP area to be laid down for cable/wire connection as per requirement at free of cost.
2	Chapter IX, SI No. g of 9.1.2	Trefoil Clamps with hardware as mentioned in BOQ	Stands Deleted
3	Chapter-II, Under Clause no. 2.1, SI no. 2.1.11	Rate for Fabrication of bends are as per BOQ.	Amended as Mentioned fabrication cable trays quoted in BOQ sl no. from E1E.1 to E1E.4 , are payable for the bends which are supposed to be supplied by BHEL (Standard bends ,Tees)
4	Sl. No. 40 of Major T&P of Chapter IV	Man-lifter wth 40 feet min	Amended as Man-Lifter with boom height as per job requirement.

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BB) Chapter-II- Clause no. 22: this clause revised in totality and revised clause is as follows.

GENERAL

Applicability of new size of cable tray, cable, etc for a project of such magnitude may be inevitable. To derive rates of such new items of installation of cable tray, laying of cable, cable termination, etc, which are not covered in BOQ of Volume-III, following guidelines shall be applicable for this tender. Decision of BHEL shall be final & binding on bidder.

For new size cable tray, width of cable tray will be taken into reference and rate of installation of cable tray of nearest width will be pro-rated to derive the rate for installation of new cable tray.

To derive the rate for laying of new size cable, OD of cable will be taken into reference and rate of laying of cable of nearest lower OD will be pro-rated to derive the rate for laying of for new cable.

Rate for termination of new size cable and other items will be derived based on mutually agreed modality and on approval of BHEL.

CC) Chapter - XII: BILL OF QUANTITY & Weightages/ Factor has been revised in totality.

DD) There is no change in Instructions to the bidders (Sr no 1 to 6).

EE) For the convenience of bidders, BHEL has issued a Revised-excel sheet with all the requisite formulae as described above. However the referred excel sheet shall not form part of contract document. Further, this sheet should not be uploaded at the e-Portal.

Enclosure:

- 1. Revised-Chapter-XII -BILL OF QUANTITY & Weightages/ Factor-2909 : revised in totality.**
- 2. Revised-ExcelSheetforCalculationPurposeOnly2909: This Sheet revised in totality.**

All other Terms and conditions of the Tender Specification shall remain unaltered unless expressly amended by BHEL in writing.

Bidders are requested to submit as a part of Technical Bid, a copy of this corrigendum duly countersigned by the authorized signatory and stamped with the Official seal as a token of Bidder's unqualified acceptance of this corrigendum/ digitally signed.

BIDDERS WHO HAVE ALREADY SUBMITTED THEIR OFFERS PRIOR TO ISSUANCE OF THIS CORRIGENDUM IN E-TENDER PORTAL ARE REQUIRED TO RE-SUBMIT THEIR OFFER AFTER TAKING COGNIZANCE OF THIS CORRIGENDUM.

Thanking you,
Yours Sincerely,

(Purchase)

Revised-Chapter-XII -BILL OF QUANTITY & Weightages/ Factor-2909**Job: Cabling Package of Unit#2 At 3 X 800 MWPVUNL PROJECT PATRATU, DISTRICT-RAMGARH STATE-JHARKHAND**

A	DESCRIPTION	UOM	TOTAL QTY	FACTOR COMPONENT
E1A	CABLE TRAYS AND ACCESSORIES			
E1A.01	Ladder type Cable Tray 150mm	Meter	10314.00	0.01285547864115010000
E1A.02	Ladder type Cable Tray 300mm	Meter	9949.00	0.01598333749432760000
E1A.03	Ladder type Cable Tray 600mm	Meter	25129.00	0.04451762630221710000
E1A.04	Perforated type Cable Tray 50mm	Meter	1690.00	0.00193549754033283000
E1A.05	Perforated type Cable Tray 100mm	Meter	1654.00	0.00173462305703130000
E1A.06	Perforated type Cable Tray 150mm	Meter	4671.00	0.00645698018503039000
E1A.07	Perforated type Cable Tray 300mm	Meter	4997.00	0.00924749405616121000
E1A.08	Perforated type Cable Tray 600mm	Meter	6621.00	0.01735977764406660000
E1B	CABLE TRAY SUPPORT AND ACCESSORIES			
E1B.01	Single Channel (in standard length of 6meter per piece)	Meter	10650.00	0.02175027386323960000
E1B.02	Double Channel (in standard length of 6meter per piece)	Meter	9673.00	0.02151222700508160000
E1C	CANTILEVER ARM (EACH COMPLETE WITH, 2 NOS.-M12 HEX. BOLT & WASHER, 2 NOS.-M12 SPRING NUTS, 2 NOS.-M6 PAN HEAD SCREWS & WASHER, 2 NOS.-M6 SPRING NUTS)			
E1C.01	For 750mm trays	No	1000.00	0.00148660392927467000
E1C.02	For 600mm trays	No	24763.00	0.03379618657933850000
E1C.03	For 300mm trays	No	10096.00	0.00898774888692970000
E1C.04	For 150mm trays	No	7791.00	0.00967946445540850000
E1C.05	For 100mm trays	No	100.00	0.00003598506392262430
E1D	CLAMPS & FITTINGS (COMPLETE WITH REQUIRED HARDWARE I.E. SPRING NUTS / WASHERS, TRESTLE BRACKET, ETC. AS REQUIRED FOR COMPLETE INSTALLATION)			
E1D.01	Base plate for single channel.	No	6258.00	0.00363620525839847000
E1D.02	Base plate for double channel.	No	3493.00	0.00223943751011417000
E1E	FABRICATION OF IRREGULAR BEND TO BE DONE FROM THE EXISTING CABLE TRAY AS PER SITE REQUIREMENT (cable tray material will be issued by BHEL free of cost) (CONSUMABLES etc. TO BE PROVIDED BY VENDOR) (Applicable for BEND TYPE 'E', 'F' & G)			
E1E.1	IRREGULAR BEND FOR LADDER 600 MM TRAYS	No	100.00	0.00070234346327559600

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E1E.2	IRREGULAR BEND FOR LADDER 450 MM TRAYS	No	100.00	0.00056186793565988200
E1E.3	IRREGULAR BEND FOR LADDER 300 MM TRAYS	No	100.00	0.00042140949544565500
E1E.4	IRREGULAR BEND FOR LADDER 150 MM TRAYS	No	100.00	0.00028093396782994100
E2A	LT XLPE/ PVC ARMoured/ UNARMoured ALUMINIUM/ COPPER CONDUCTOR POWER/ FRLS CABLE			
E2A.01	1Cx35sqmm Al Cable	Meter	16200.00	0.00518256175424341000
E2A.02	1Cx70sqmm Cable	Meter	500.00	0.00021381227542974400
E2A.03	1Cx120sqmm Al Cable	Meter	9000.00	0.00381834936886259000
E2A.04	1Cx300sqmm Al Cable	Meter	18400.00	0.00886136307711492000
E2A.05	1Cx630sqmm Al Cable	Meter	21540.00	0.01270267989457340000
E2A.06	2Cx10sqmm Al Cable	Meter	7400.00	0.00159023042335415000
E2A.07	2Cx16sqmm Al Cable	Meter	10800.00	0.00249206797693729000
E2A.08	2Cx25sqmm Al Cable	Meter	400.00	0.00008695439262360560
E2A.09	2Cx35sqmm Al Cable	Meter	16920.00	0.00443688994620181000
E2A.10	2Cx70sqmm Al Cable	Meter	5760.00	0.00156293322672393000
E2A.11	2Cx95sqmm Al Cable	Meter	16200.00	0.00565514800316602000
E2A.12	2Cx120sqmm Al Cable	Meter	31000.00	0.01309134114546440000
E2A.13	3Cx10sqmm Al Cable	Meter	25920.00	0.00632037681363839000
E2A.14	3Cx16sqmm Al Cable	Meter	10200.00	0.00237281130160653000
E2A.15	3Cx25sqmm Al Cable	Meter	32160.00	0.01060149403463040000
E2A.16	3Cx35sqmm Al Cable	Meter	500.00	0.00015746040469271400
E2A.17	3Cx50sqmm Al Cable	Meter	19640.00	0.00779755145671547000
E2A.19	3Cx120/150/185 sqmm Al Cable	Meter	8740.00	0.00599782084482813000
E2A.20	3Cx240sqmm Al Cable	Meter	6750.00	0.00489540658825635000
E2A.21	3.5Cx25sqmm Al Cable	Meter	26980.00	0.01120989330756150000
E2A.22	3.5Cx50sqmm Al Cable	Meter	29100.00	0.01344164013082820000
E2A.23	3.5Cx95sqmm Al Cable	Meter	16420.00	0.00799237079766898000
E2A.24	4Cx10sqmm Al Cable	Meter	8240.00	0.00212316312373708000
E2A.25	2Cx1.5sqmm Cu Control Cable	Meter	66040.00	0.01361726168668040000
E2A.26	2Cx2.5sqmm Cu Power Cable	Meter	95200.00	0.01856629406570990000
E2A.27	3Cx1.5sqmm Cu Control Cable	Meter	135240.00	0.02650102791000550000
E2A.28	3Cx2.5sqmm Cu Power Cable	Meter	141620.00	0.02895864942784070000
E2A.29	4Cx1.5sqmm Cu Screened Cable for ESP	Meter	27000.00	0.00562985975476119000
E2A.30	4Cx2.5sqmm Cu Screened Cable for ESP		400.00	0.00009150289405867550
E2A.32	5Cx2.5sqmm Cu Control Cable	Meter	24700.00	0.00512914817339213000
E2A.33	7Cx1.5sqmm Cu Control Cable	Meter	10440.00	0.00256750998858501000
E2A.34	12Cx1.5/2.5 sqmm Cu Control Cable	Meter	31360.00	0.00770205405683897000
E2A.35	14Cx1.5sqmm Cu Control Cable	Meter	37000.00	0.00941389546676489000

Revised-Chapter-XII -BILL OF QUANTITY & Weightages/ Factor-2909

Job: Cabling Package of Unit#2 At 3 X 800 MWPVUNL PROJECT PATRATU, DISTRICT-RAMGARH STATE-JHARKHAND

A	DESCRIPTION	UOM	TOTAL QTY	FACTOR COMPONENT
E2B	HT ALUMINIUM CONDUCTOR, ARMoured/ UNARMoured XLPE POWER CABLE			
E2B.01	11/11kV, 1Cx240sqmm Power Cable	Meter	12401.00	0.00827436520577623000
E2B.02	11/11kV, 1Cx400sqmm Power Cable	Meter	27200.00	0.03322358872196380000
E2B.03	11/11kV, 1Cx630sqmm Power Cable	Meter	20000.00	0.02371051377653690000
E2B.04	11/11kV, 3Cx185sqmm Power Cable	Meter	20100.00	0.03453747284075750000
E2B.05	3.3/3.3kV, 1Cx150sqmm Power Cable	Meter	2400.00	0.00240662155640299000
E2B.06	3.3/3.3kV, 3Cx150sqmm Power Cable	Meter	16200.00	0.02123316069321230000
E2C	CABLE TERMINATION KITS & JOINING KITS			
E2C.1	HT END TERMINATION JOINTING KITS, XLPE INSULATED, UNARMoured/ ARMoured, ALUMINIUM CABLE WITH LUGS			
E2C.1.01	11/11kV, 1Cx240sqmm Power Cable	No	65.00	0.00414293275474242000
E2C.1.02	11/11kV, 1Cx400sqmm Power Cable	No	144.00	0.00917057507509538000
E2C.1.03	11/11kV, 3Cx185sqmm Power Cable	No	4.00	0.00030379971522759000
E2C.1.04	3.3/3.3kV, 1Cx150sqmm Power Cable	No	14.00	0.00079620354476810200
E2C.1.05	3.3/3.3kV, 1Cx240sqmm Power Cable	No	4.00	0.00024526656595884000
E2C.1.06	3.3/3.3kV, 3Cx150sqmm Power Cable	No	4.00	0.00030379971522759000
E2C.1.07	3.3/3.3kV, 3Cx185sqmm Power Cable	No	10.00	0.00073874498328083200
E2C.2	HT STRAIGHT THROUGH JOINTING KITS, XLPE INSULATED, UNARMoured/ ARMoured, ALUMINIUM CABLE WITH LUGS			
E2C.2.01	11/11kV, 1Cx240sqmm Power Cable	No	72.00	0.00458909474371468000
E2C.2.02	11/11kV, 1Cx630sqmm Power Cable	No	43.00	0.00241893823396230000
E2C.2.03	11/11kV, 1Cx400sqmm Power Cable	No	32.00	0.00181989381661281000
E2C.2.04	11/11kV, 3Cx185sqmm Power Cable	No	25.00	0.00142179204422875000
E2C.2.05	3.3/3.3kV, 1Cx240sqmm Power Cable		4.00	0.00025889031404091500
E2C.2.06	3.3/3.3kV, 3Cx185sqmm Power Cable	No	4.00	0.00027096524731891400
E2C.2.07	3.3/3.3kV, 3Cx150sqmm Power Cable	No	4.00	0.00025473422324075200
E3	JUNCTION BOXES AND PUSH BUTTON			
E3.01	Start Stop Push Button Station (Local push button station Type A/ B/ C/ D)	No	722.00	0.00703514418839365000
E3.02	Local Motor Starter	No	195.00	0.00194127235292364000
E4	STRUCTURAL STEEL			
E4.01	Structural Steel fabrication & Installation (MS angle, Channel, Plate etc)/ Cable tray structural steel fabrication & installation.	MT	213.00	0.06241364415756860000
E6	ABOVE GROUND EARTHING & LIGHTNING PROTECTION MATERIALS			
E6.01	8 SWG GI wire	Meter	62240.00	0.00510194292935226000
E6.02	65x8mm GI flat	Meter	18799.55	0.02736779076206140000
E6.03	50x6mm GI flat	Meter	4293.06	0.00507965623241809000
E6.05	25x6mm GI flat	Meter	20882.46	0.02063636531746020000
E6.06	25x3mm GI flat	Meter	8383.53	0.00827724056016294000
E6.07	40mm dia MS Rod	Meter	1000.00	0.00074863399634406100

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A	DESCRIPTION	UOM	TOTAL QTY	FACTOR COMPONENT
E6.08	Ground Electrode with 40mm Dia rod (One end Sharpened) 3000mm long located along the periphery of Earthing Grid (Without Treated Pit Other than Earth Test Pit)	No	75.00	0.00246901462083735000
E6.09	GS Rod 20mm dia Vertical Air Termination	No	263.00	0.00307598508938200000
E6.10	Test Links with 150x150x3mm GS flat	No	238.00	0.00080371331462141600
E6.11	Flexible braided Copper conductor of 600mm with tinned Cu, clamp connected by U-bolt for fence gate earthing.	No	22.00	0.00003655403035319720
E6.12	50NB gal MS pipe(PERF) (for neutral earthing along with salt, sand, charcol & chamber with cover)	No	61.00	0.01009629672261950000
E10.1	TREFOIL CLAMPS (COMPLETE WITH FIXING HARDWARES) 11/11kV,3.3/3.3kV GRADE ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured/ UNARMoured CABLES AS PER CABLE OD.			
E10.1.1	Trefoil Clamp	No	52704.00	0.11274521860907400000
B	ACC Work Area (including man lifter/sky climber etc)			
E1A.01	Ladder type Cable Tray 150mm	Meter	400	0.00064945241014858400
E1A.02	Ladder type Cable Tray 300mm	Meter	500	0.00104636754500467000
E1A.03	Ladder type Cable Tray 600mm	Meter	5000	0.01153859725568490000
E1A.04	Perforated type Cable Tray 50mm	Meter	200	0.00029837479403904500
E1A.05	Perforated type Cable Tray 100mm	Meter	200	0.00027322838979691100
E1A.06	Perforated type Cable Tray 150mm	Meter	400	0.00072028736253907100
E1A.07	Perforated type Cable Tray 300mm	Meter	500	0.00120534378571886000
E1A.08	Perforated type Cable Tray 600mm	Meter	2000	0.00683088200266036000
E1B	CABLE TRAY SUPPORT AND ACCESSORIES			
E1B.01	Single Channel (in standard length of 6meter per piece)	Meter	800	0.00212829255727418000
E1B.02	Double Channel (in standard length of 6meter per piece)	Meter	1500	0.00434551907662294000
E1C	CANTILEVER ARM (EACH COMPLETE WITH, 2 NOS.-M12 HEX. BOLT & WASHER, 2 NOS.-M12 SPRING NUTS, 2 NOS.-M6 PAN HEAD SCREWS & WASHER, 2 NOS.-M6 SPRING NUTS)			
E1C.02	For 600mm trays	No	4000	0.00711132701507248000
E1C.03	For 300mm trays	No	500	0.00057982616575701800
E1C.04	For 150mm trays	No	400	0.00064735772339184000
	LT CABLES			
E2A.1	1Cx300Sqmm	Mtr	500	0.00031367429463158600
E2A.2	2Cx1.5Sqmm	Mtr	20000	0.00537203621813188000
E2A.3	2Cx2.5Sqmm	Mtr	1500	0.00038107087126054000
E2A.4	3Cx2.5Sqmm	Mtr	7000	0.00186456690206848000
E2A.5	3Cx16Sqmm	Mtr	800	0.00024242602185101000
E2A.6	3Cx95Sqmm	Mtr	1000	0.00062949734105923300
E2A.7	3Cx240Sqmm	Mtr	27000	0.02550791591824670000
E2A.8	4Cx10Sqmm	Mtr	400	0.00013425867585740300
E2A.9	5Cx1.5Sqmm	Mtr	15000	0.00402636220065228000
E2A.10	5Cx2.5Sqmm	Mtr	4000	0.00108201803810529000
E2A.11	3.5Cx25Sqmm	Mtr	1500	0.00081185227176773300
E2A.12	3.5Cx50Sqmm	Mtr	700	0.00042119531558803700
E2A.14	3.5Cx95Sqmm	Mtr	500	0.00031702878282971400

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A	DESCRIPTION	UOM	TOTAL QTY	FACTOR COMPONENT
E6	ABOVE GROUNG EARTHING & LIGHTNING PROTECTION MATERIALS			
E6.1	25x6 Flat	Mtr	1084	0.00139483757402842000
E6.2	8 SWG GI wire	Meter	700	0.00007474639812168570
E6.3	65x8mm Flat	Meter	4758	0.00902368270342637000
E6.4	50x6mm flat	Meter	1184	0.00182483647499713000
E6.6	25x3mm GI flat	Meter	314	0.00040444317777816500
E6.7	50NB gal MS pipe(PERF) (for neutral earthing along with salt, sand, charcol & chamber with cover)	No	40	0.00862419324712430000
E6.8	75X12 Flat	Mtr	5000	0.01314650051615090000
E6.9	Test Links with 150x150x3mm GS flat	No	25	0.00010997410395509200
E6.10	100NB gal MS pipe	No	35	0.00300517419507286000
TOTAL				1.0000000000