

Ref: BHE/PW/PUR/VNSR-CBL/1646/Corrigendum-01

Date 27/06/2016

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To

ALL BIDDERS

**Sub: CORRIGENDUM -01: CHAPTER XI – Schedule of items Quantities and Factor for deriving Item Rate from the accepted Lumpsum Price.**

**Job:** HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF ILLUMINATION PACKAGE AND RELOCATION OF EXISTING PANELS ALONGWITH ASSOCIATED EQUIPMENTS & CABLES OF UNIT #1 TO 6 OF 6x210 MW NTPC VINDHYACHAL STPP ESP R&M AT 6 X 210 MW VINDHACHAL STPP NTPC LTD VINDHYACHAL DISTRICT- SINGRAULI, MADHYA PRADESH.

**Tender Specification Number:** BHE/PW/PUR/VNSR-CBL/1646

Bidders to kindly take note of the following:

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**AA) 'CHAPTER XI of Vol-I-TCC – Schedule of items Quantities and Factor for deriving Item Rate from the accepted Lumpsum Price' for subject tender is issued herewith.**

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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 their offer, a copy of this corrigendum duly Digitally countersigned by the authorized signatory as a token of Bidder's unqualified acceptance of this corrigendum.

**BIDDERS MAY PLEASE NOTE THAT SUBJECT TENDER IS E-TENDER AND THE OFFER IS TO BE SUBMITTED ONLY IN [E-PROCUREMENT PORTAL https://bheleps.buyjunction](https://bheleps.buyjunction)**

**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 faithfully,

AGM (Purchase)

Enclosure:

1. CHAPTER XI – Schedule of items Quantities and Factor for deriving Item Rate from the accepted Lumpsum Price

TECHNICAL CONDITIONS OF CONTRACT (TCC)  
Chapter-XI: Schedule of items Quantities and Factor for  
deriving Item Rate from the accepted Lumpsum Price

**Job: HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF ILLUMINATION PACKAGE AND RELOCATION OF EXISTING PANELS ALONGWITH ASSOCIATED EQUIPMENTS & CABLES OF UNIT #1 TO 6 OF 6x210 MW NTPC VINDHYACHAL STPP ESP R&M AT 6 X 210 MW VINDHACHAL STPP NTPC LTD VINDHYACHAL DISTRICT- SINGRAULI, MADHYA PRADESH.**

**PART B: % weightage for amount of individual items of Schedule of quantity w.r.t. the total price (as quoted by the bidder in Part C of Vol-II-Price Bid )**

SL. NO.	DESCRIPTION	UOM	QTY	TOP	Factor for deriving item rate from accepted Lumpsum price
<b>A</b>	<b>ERECTION BOQ</b>				
<b>BOQ FOR ERECTION, TESTING AND COMMISSIONING OF DISMANTLED PANELS IN NEW ESP CONTROL ROOM</b>					
<b>SECTION-E1 : CABLE TRAYS AND ACCESSORIES</b>				<b>E1</b>	
E1.1	Perforated cable tray and accessories (with or without cover) 150mm	Meter	500		0.000007912608
E1.2	Perforated cable tray and accessories (with or without cover) 300mm	Meter	500		0.000010653247
<b>SECTION-E2A : LT POWER CABLES (XLPE Armoured/ Un-armoured)</b>				<b>E2A</b>	
E2A.1	3.5C X 150 sqmm Armoured Al conductor FRLS/FRLS	Meter	11000		0.000006653784
E2A.2	3.5C X 120 sqmm Armoured Al conductor FRLS/FRLS	Meter	7000		0.000006001251
E2A.3	3.5C X 70 sqmm Armoured Al conductor FRLS/FRLS	Meter	1500		0.000004470110
E2A.4	3.5C X 50 sqmm Armoured Al conductor FRLS/FRLS	Meter	2000		0.000003367483
E2A.5	3.5C X 35 sqmm Armoured Al conductor FRLS/FRLS	Meter	3000		0.000002937941
E2A.6	2C X 16 sqmm AL XLPE/FRLS PVC Armoured Cable	Meter	800		0.000001250603
E2A.7	2C X 6 sqmm AL XLPE/FRLS PVC Armoured Cable	Meter	5000		0.000001076937
<b>SECTION-E2B : LT CONTROL CABLES (Generally PVC Sheath, XLPE</b>				<b>E2B</b>	
E2B.1	24C X2.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	15000		0.000004007684
E2B.2	19C X1.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	5500		0.000002363506
E2B.3	7C X1.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	40000		0.000001207443
E2B.4	5C X1.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	25000		0.000001106737
E2B.5	7C X2.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	2700		0.000001438656
E2B.6	5C X2.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	7500		0.000001233134
E2B.7	4C X 2.5 sqmm Cu XLPE/PVC/FRLS PVC Armoured Cable	Meter	5000		0.000001181753
E2B.8	3C X 2.5 sqmm Cu XLPE/PVC/FRLS PVC Armoured Cable	Meter	19600		0.000001069743
E2B.9	Screened Copper Cable 4P x 0.5 sqmm (Intrinsic/Non-intrinsic safe) armoured / unarmoured	Meter	3500		0.000001163256
<b>SECTION-E3 : JUNCTION BOXES AND PUSH BUTTON</b>				<b>E3</b>	
E3.1	Junction Box Panels approx 600x600mm, 50 Kg	No	24		0.000096204978
E3.2	LOB Junction Box Size: L 820 x W 820 x H 200, 0.1MT	No	18		0.000157019021
E3.3	LDB Size: L 460 x W 420 X H 200, 0.1MT	No	4		0.000104679690
<b>SECTION-E4 : STRUCTURAL STEEL</b>				<b>E4</b>	
E4.1	Structural Steel fabrication & installation (MS Angle, Channel, Plate, etc.)	MT	1		0.001679253685
<b>SECTION-E5A : PANELS</b>				<b>E5A</b>	
E5A.1	Fan Los Panel (4 Vertical panel in each set)( Size -L 3250xW 400 x H 2000), 1.5MT	Set	12		0.002059487369
E5A.2	Control Panel (approx. weight 500kg, approx. dimension 1000(L) X 650(B) X 2300(H) mm)	No	2		0.000852177574
E5A.3	RAH Panel ( Size: L 1750 x W 950 xH 2200), 1MT	No	12		0.001815563253
E5A.4	Lighting Panel & TXR Size : L 1820 x W 770 X H 1680, 1.8MT	No	6		0.002232827941
E5A.5	RAH CW Size: L 1120 x W 340 x H 1550, 0.6MT	No	8		0.001215946869
<b>SECTION-E5B : ILLUMINATION PACKAGE (LIGHTING SYSTEM)</b>				<b>E5B</b>	
E5B.1	Well Glass Lighting Fixture 150Watt HPSV with Lamp & accessories	No.	256		0.000029697969
E5B.2	Well Glass Lighting Fixture 70Watt HPSV with Lamp & accessories	No.	1254		0.000029697969
E5B.3	Switchgear Room (Non AC Area) - Industrial trough type fluorescent with Lamp & accessories	No.	344		0.000015414171
E5B.4	Control Room (AC Area) - Mirror optics with anti-glare features type fluorescent, or CFL / halogen downlighter with Lamp & accessories	No.	131		0.000027437224
E5B.5	Light Fixture 70Watt / HPSV Flood Light Fixture outdoor with Lamp & accessories	No.	33		0.000029697969
E5B.6	Double Door Metal Enclosed Lighting Panels with Contactor Timer (NLP-1)	No.	10		0.000164623345
E5B.7	Double Door Metal Enclosed Lighting Panels with Contactor Timer (NLP-2)	No.	12		0.000164623345

TECHNICAL CONDITIONS OF CONTRACT (TCC)  
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**PART B: % weightage for amount of individual items of Schedule of quantity w.r.t. the total price (as quoted by the bidder in Part C of Vol-II-Price Bid )**

SL. NO.	DESCRIPTION	UOM	QTY	TOP	Factor for deriving item rate from accepted Lumpsum price
E5B.8	Surface Mounted Decorative Type Switch Box with (min 5 Switch + 1 Socket)	No.	40		0.000021990884
E5B.9	Industrial 20Amps Recepticle with Plug (20A, 240V AC, 3 Pin, socket outlet with chained plug top & with 25A, SPN MCB in sheet steel enclosure with decorative face plate )	No.	43		0.000027437224
E5B.10	Industrial 63Amps Recepticle with Plug 63A, 415V AC, 5 Pin Industrial socket outlet with chained plug top & with 63A, TPN MCB in outdoor enclosure	No.	24		0.000027437224
E5B.11	J 'Type' Pole (3.5 Mtrs.) with Junction Box with Hardware & fixing U clamps.	No.	1254		0.000153627903
E5B.12	Junction Box with Termination Hardware Glands, Lugs etc. 250mmx150mmx80mm	No.	289		0.000032986326
E5B.13	Wire 2.5sqmm, Cu (Stranded Flexible 2.5 sq. mm. Cu, PVC, FRLS Wire (R/Y/B/Black/Green/Grey/White)	Mtr.	35000		0.000000462425
E5B.14	Wire 4 sqmm, Cu (Stranded Flexible 4 sq. mm. Cu, PVC, FRLS Wire (R/Y/B/Black/Green/Grey/White)	Mtr.	6000		0.000000616567
E5B.15	GI Conduit 20mm (Hot Dip GI Conduit Heavy Duty 20 mm Dia. 2mm thick with mounting accessories (metallic saddle/clamp @ 1 mtr & Tees, bend, two way JB, fourway JB etc @ 4 mtr)	Mtr.	14000		0.000003391118
E5B.16	GI Conduit 25mm (Hot Dip GI Conduit Heavy Duty 25 mm Dia. 2mm thick with mounting accessories (metallic saddle/clamp @ 1 mtr & Tees, bend, two way JB, fourway JB etc @ 4 mtr)	Mtr.	3000		0.000003493879
E5B.17	GI Conduit 40mm (Hot Dip GI Conduit Heavy Duty 40 mm Dia. 2mm thick with mounting accessories (metallic saddle/clamp @ 1 mtr & Tees, bend, two way JB, fourway JB etc @ 4 mtr)	Mtr.	1000		0.000005908765
E5B.18	14 SWG GI Wire	Mtr.	18000		0.000001798320
E5B.19	GI Flat 25X3 sq.mm.	Mtr.	310		0.000003288356
E5B.20	4CX35 sq. mm. AL, XLPE, FRLS Armoured Cable	Mtr.	7600		0.000003930614
	<b>Lighting Boards / Panels</b>				
E5B.24	Each rating of isolator:- 63A TPN Isolator	No.	1		0.000002774551
E5B.25	Each rating of HRC fuse:- HRC Fuse 2A	No.	4		0.000002774551
E5B.26	Each type of MCB's:- 20A SP MCB	No.	10		0.000002774551
E5B.27	<b>Each type of contractor:- 63A TP Contactor</b>	No.	2		0.000002774551
	<b>Lighting Fixtures ( Each type of fixtures complete with accessories without lamps )</b>				
E5B.29.1	Well Glass Lighting Fixture 150Watt HPSV without Lamp & with accessories	No.	13		0.000025279240
E5B.29.2	Well Glass Lighting Fixture 70Watt HPSV without Lamp & with accessories	No.	68		0.000025279240
E5B.29.3	Switchgear Room (Non AC Area) - Industrial trough type fluorescent without Lamp & with accessories	No.	17		0.000012639620
E5B.29.4	Control Room (AC Area) - Mirror optics with anti-glare features type fluorescent, or CFL / halogen downlighter without Lamp & with accessories	No.	7		0.000028105172
E5B.29.5	Light Fixture 70Watt / HPSV Flood Light Fixture outdoor without Lamp & with accessories	No.	2		0.000036582966
E5B.30	<b>Lamps (each type and rating):-</b>				
E5B.30.1	150 W HPSV Lamp for Well Glass Fixture	No.	26		0.000005086676
E5B.30.2	70 W HPSV Lamp for Well Glass Fixture	No.	135		0.000004418729
E5B.30.3	28 W Tubelight fitting	No.	96		0.000002569028
E5B.30.4	70 W HPSV Lamp for Flood Light Fixture	No.	3		0.000004418729
E5B.31	<b>Each type of receptacle</b>				
E5B.31.1	Industrial 20Amps Recepticle with Plug (20A, 240V AC, 3 Pin, socket outlet with chained plug top & with 25A, SPN MCB in sheet steel enclosure with decorative face plate)	Nos.	3		0.000025690285
E5B.31.2	Industrial 63Amps Recepticle with Plug 63A, 415V AC, 5 Pin Industrial socket outlet with chained plug top & with 63A, TPN MCB in outdoor enclosure	Nos.	3		0.000027437224
E5B.32	<b>Lighting Switch boards</b>	Lot			

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**PART B: % weightage for amount of individual items of Schedule of quantity w.r.t. the total price (as quoted by the bidder in Part C of Vol-II-Price Bid )**

SL. NO.	DESCRIPTION	UOM	QTY	TOP	Factor for deriving item rate from accepted Lumpsum price
E5B.32.1	Surface Mounted Decorative Type Switch Box with (min 5 Switch + 1 Socket)	No.	1		0.000022967115
E5B.33	<b>Junction Boxes (each type/size)</b>	Lot			
E5B.33.1	Junction Box with Termination Hardware Glands, Lugs etc. 250mmx150mmx80mm	No.	6		0.000032986326
E5B.34	<b>Trucking/Conduits (each type/size)</b>	Lot			
E5B.34.1	GI Conduit 20mm	Mtr.	280		0.000003391118
E5B.34.2	GI Conduit 25mm	Mtr.	60		0.000003493879
E5B.34.3	GI Conduit 40mm	Mtr.	20		0.000005908765
E5B.34.4	Flexible Conduits 20mm	Mtr.	500		0.000001644178
E5B.34.5	Flexible Conduits Couplers	No	200		0.000001767492
E5B.34.6	20mm Ball Socket	No	200		0.000003236976
<b>B</b>	<b>DISMANTLING BOQ</b>				
	<b>BOQ FOR DISMANTLING &amp; SHIFTING OF EXISTING PANEL FROM OLD ESP CONTROL ROOM TO NEW ESP CONTROL ROOM</b>				
<b>SECTION-E10A : LT POWER CABLES (XLPE Armoured/ Un-armoured)</b>				<b>E10A</b>	
<b>E10A.1</b>	3.5C X 150 sqmm Armoured Al conductor FRLS/FRLS	Meter	11000		0.000002661514
<b>E10A.2</b>	3.5C X 120 sqmm Armoured Al conductor FRLS/FRLS	Meter	7000		0.000002400500
<b>E10A.3</b>	3.5C X 70 sqmm Armoured Al conductor FRLS/FRLS	Meter	1500		0.000001788044
<b>E10A.4</b>	3.5C X 50 sqmm Armoured Al conductor FRLS/FRLS	Meter	2000		0.000001347199
<b>E10A.5</b>	3.5C X 35 sqmm Armoured Al conductor FRLS/FRLS	Meter	3000		0.000001174560
<b>E10A.6</b>	2C X 16 sqmm AL XLPE/FRLS PVC Armoured Cable	Meter	800		0.000000500447
<b>E10A.7</b>	2C X 6 sqmm AL XLPE/FRLS PVC Armoured Cable	Meter	5000		0.000000430569
<b>SECTION-E10B : LT CONTROL CABLES (Generally PVC Sheath, XLPE)</b>				<b>E10B</b>	
<b>E10B.1</b>	24C X2.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	15000		0.000001603074
<b>E10B.2</b>	19C X1.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	5500		0.000000945402
<b>E10B.3</b>	7C X1.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	35000		0.000000482977
<b>E10B.4</b>	5C X1.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	20000		0.000000442901
<b>E10B.5</b>	7C X2.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	1200		0.000000575462
<b>E10B.6</b>	5C X2.5 sqmm Cu PVC/FRLS PVC Armoured Cable	Meter	7500		0.000000493253
<b>E10B.7</b>	4C X 2.5 sqmm Cu XLPE/PVC/FRLS PVC Armoured Cable	Meter	5000		0.000000472701
<b>E10B.8</b>	3C X 2.5 sqmm Cu XLPE/PVC/FRLS PVC Armoured Cable	Meter	16600		0.000000427486
<b>E10B.9</b>	Screened Copper Cable 4P x 0.5 sqmm (Intrinsic/Non-intrinsic safe) armoured / unarmoured	Meter	3500		0.000000465508
<b>SECTION-E10C : JUNCTION BOXES AND PUSH BUTTON</b>				<b>E10C</b>	
<b>E10C.1</b>	LOB Junction Box Size: L 820 x W 820 x H 200, 0.1MT	No	18		0.000062807608
<b>E10C.2</b>	LDB Size: L 460 x W 420 X H 200, 0.1MT	No	4		0.000041872081
<b>SECTION-E10D : PANELS</b>				<b>E10D</b>	
<b>E10D.1</b>	Fan Los Panel (4 Vertical panel in each set)( Size -L 3250xW 400 x H 2000), 1.5MT	No	12		0.000823794948
<b>E10D.2</b>	Control Panel (approx. weight 500kg, approx. dimension 1000(L) X 650(B) X 2300(H) mm)	No	2		0.000340871030
<b>E10D.3</b>	RAH Panel ( Size: L 1750 x W 950 xH 2200), 1MT	No	12		0.000726225301
<b>E10D.4</b>	Lighting Panel & TXR Size : L 1820 x W 770 X H 1680, 1.8MT	No	6		0.000893130971
<b>E10D.5</b>	RAH CW Size: L 1120 x W 340 x H 1550, 0.6MT	No	8		0.000486378747