

CORRIGENDUM -1 FOR NIT: NIT NO CMC/BR/22-23/RB/PR/KG/1069 DT 28.09.2022- SUPPLY & INSTALLATION OF 2 NOS 66 KV MONOPOLES ALONG WITH ACCESSORIES ON SINGLE POINT RESPONSIBILITY BASIS IN CONNECTION WITH SHIFTING OF 66 KV D/C O/H LINE FROM 220 KV MEHRAULLI TO BIJWASAN AND PALAM TO BIJWASAN**CORRIGENDUM DATE: 07th Oct 2022**

| Sl. No. | Clause no. | Clause Description | Revised |
|----------------|--|--|--|
| 1 | Sec-I RFQ , Clause 1.00 Event Information | Estimated Cost 3.5 Crores | Estimated Cost 2.4 Crores |
| 2 | Sec-I RFQ , Clause 1.03 | Earnest Money Deposit (EMD) of value Rs 7,00,000/- is not deposited in shape of Demand Draft/Pay Order/Banker's Cheque /Bank Guarantee drawn in favour of BSES Rajdhani Power Ltd, payable at Delhi. | Earnest Money Deposit (EMD) of value Rs 4,80,000/- is not deposited in shape of Demand Draft/Pay Order/Banker's Cheque /Bank Guarantee drawn in favour of BSES Rajdhani Power Ltd, payable at Delhi. |
| 3 | SECTION V PRICE FORMAT – SUPPLY | 29. CBL,PWR,1000MM2;1C;66KV;AL 30. KIT,JOINTING,TRM;66KV;1X1000MM2;H S;OD;RY | Mentioned supply items are excluded from the Vendor's scope. Revised Supply BOQ is attached herewith Annexure-I. |
| 4 | SECTION VII PRICE FORMAT – ERECTION, TESTING & COMMISSI ONING | 7. Design Validation from CPRI | 7. Design Validation from IIT Revised Service BOQ is attached herewith Annexure-I. |

ANNEXURE-I**SECTION V****PRICE FORMAT – SUPPLY**

| S. No. | Description | UOM | Qty | Basic (Rs) | Freight (Rs) | GST (Rs) | Unit Landed (Rs) | Total Landed Cost (Rs) |
|--------------------------------|--|------------|------------|-------------------|---------------------|-----------------|-------------------------|-------------------------------|
| 1 | 66kVD/Cmonopole PD(0-90D)BXA@15 | EA | 2 | | | | | |
| 2 | STRIP,MTLC,EARTHNG;50X6MM;MS GALVANIZED | KG | 3000 | | | | | |
| 3 | CLMP,PARRL GROV,ACSR GOAT CNDCTR | EA | 36 | | | | | |
| 4 | CNDCTR,ACSR GOAT UNINSUL | M | 360 | | | | | |
| 5 | LUG,CRIMPING;630MM2;HVYDTY LG BRL | EA | 24 | | | | | |
| 6 | Number plate | EA | 4 | | | | | |
| 7 | Danger Plate | EA | 4 | | | | | |
| 8 | Phase Plate in Set of red Blue & Yellow | SETS | 4 | | | | | |
| 9 | DVC,ANTI CLIMBING MONOP;MS GALVANISED | SETS | 2 | | | | | |
| 10 | Pipe type earthing material | EA | 4 | | | | | |
| 11 | 7/3.15 Sq mm Earth wire | KM | 0.2 | | | | | |
| 12 | Single Suspension Fitting | EA | 12 | | | | | |
| 13 | Single Tension Fitting | EA | 24 | | | | | |
| 14 | PA Rod | EA | 2 | | | | | |
| 15 | INSLTR,DSC;CER;11KV;ANTIFOG TYP;120KN | EA | 360 | | | | | |
| 16 | Vibration Damper | EA | 12 | | | | | |
| 17 | Tension Clamp earth wire | EA | 4 | | | | | |
| 18 | ARRSTR,ELEC,OUTDR ELEC;60KV;10KA | EA | 12 | | | | | |
| 19 | FTG,CMPSRN;SGL TENSION FOR GOAT COND | NOS | 12 | | | | | |
| 20 | FITTING,SINGLE TENSION,BOLT,F/ACSR GOAT | EA | 12 | | | | | |
| 21 | FITTING,S/SUSPENSION,COMP.,F/ACSR GOAT | EA | 12 | | | | | |
| 22 | FTG,TENSION HARDWARE CLMP;FOR7/8SWG WIRE | NOS | 4 | | | | | |
| 23 | ANGLE,STRCTL,65MM;65MM;6MM;MS | MT | 2 | | | | | |
| 24 | ANGLE,STRCTL,75MM;75MM;6MM;IS2062 | MT | 2 | | | | | |
| 25 | POLE,RAIL,MS,105LBS | MT | 10.80 | | | | | |
| 26 | CHNL,STRCTL,ISMC;150MM;75MM;16.8KG/M;MS | MT | 0.6 | | | | | |
| 27 | CHNL,STRCTL,ISMC100;100MM;50mm;7.7mm | MT | 6 | | | | | |
| Total Material Cost (A) | | | | | | | | |

ANNEXURE-II**SECTION VII****PRICE FORMAT – ERECTION, TESTING & COMMISSIONING**

| S. No. | Description | Units | Qty | Basic (Rs) | GST (Rs) | Unit Landed (Rs) | Total Landed Cost (Rs) |
|--------|---|-------|-----|------------|----------|------------------|------------------------|
| 1 | Transportation of various electrical equipment / material from various BRPL / BYPL Store / any site to the site of work in the Union Territory of Delhi including loading and unloading at both ends manually / by using suitable T&P for safe loading/ unloading.The material transported at site should be placed inyard where ever required. by Manually. | TRP | 20 | | | | |
| 2 | Transportation of various electrical equipment / material from various BRPL / BYPL Store / any site to the site of work in the Union Territory of Delhi including loading and unloading at both ends manually / by using suitable T&P for safe loading/ unloading.The material transported at site should be placed inyard where ever required. by Using Crane. | TRP | 16 | | | | |
| 3 | Transportation of Empty cable drum from site to site or from site to store any where in Union territory of Delhi. | TRP | 7 | | | | |
| 4 | Transportation of various material like 40 mm dia Rod 12-15 mtrs long by 25 T trailor from store/any site in Delhi to site of work in Delhi inclding loading and unloading at both ends manually.(Considering max lead of 50KM) | TRP | 4 | | | | |
| 5 | Civil Foundation of 66kVD/Cmonopole PD(0-90D)BXA@15 | EA | 2 | | | | |
| 6 | Erection of 66kVD/Cmonopole PD(0- | EA | 2 | | | | |

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| | 90D)BXA@15 | | | | | | |
| 7 | Design Validation from IIT | EA | 1 | | | | |
| 8 | Supervision charges of OEM during Erection of Monopole. | EA | 1 | | | | |
| 9 | Fabrication of MS structure as well as galvanised for different equipment like isolator, C.T.'s, P.T.'s, CVT, LA's etc, cable supporting structure including supply of nuts and bolts, consumables , welding electrode, hacksaw blades etc. excluding supply of steel. | MT | 13.6 | | | | |
| 10 | Erection of MS as well as galvanised structure for different equipment like isolator, C.T.'s, P.T.'s, CVT, LA's , ISO etc, cable supporting structure, 33kV/66 kV GI gantry structure , Tower Structure i/c consumables , welding electrode ,tack welding & hacksaw blades etc. | MT | 10.6 | | | | |
| 11 | Painting of any M.S.Structure with one coat of Red oxide and two coats of AL.paint ISI marked including supply of paint by contractor. | Kg | 24400 | | | | |
| 12 | Digging of earth pit upto depth of 10 ft. in rocky/ semi rocky as per feasibility at site of embedding 600 x600mm earth plate with M.S Flate 50 x8 mm running the same through 3/4 " dia G.I. grouting pipe. Earth Plate to be covered by charcoal 200kg. And 100 Kg. Sodium chloride in the earth pit and refilling etc. NOTE: Charcoal, commonsalt, earth plate, G.I. Pipe, MS flat, Badarpur, Cement and bricks to be supplied by the contractor | EA | 36 | | | | |
| 13 | Making termination in the existing line i/c.sagging and jumpering complete for 6Nos.Conductors with one earth wire. | EA | 4 | | | | |

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| 14 | Making of civil goomitties around GI earthpipe as per standard design of BSES. Supply of necessary bricks, cement, badarpur, sand, C1 cover of size 1'x1' and providing the same at the top of goomitties. | EA | 36 | | | | |
| 15 | Grouting of cable mounting structure with cement concrete having ratio 1:3:6 including fixing with gantry structure. Badarpur, cement and stone ballast shall be supplied by contractor. Suitable for mounting 33/66 KV cable. | EA | 4 | | | | |
| 16 | Supply and fixing of wire mesh fencing 2.65 mtr height with gate frame of 3 mtr x 2.5 mtr with complete material eg angle, chain link, wire mesh and civil material etc complete as per specification, drawing no. Angle iron size 50x50x6 mm & MS strip 50 x 3 mm wire mesh 1"x3", 8 SWG wire to be used for wire-mesh with providing support at 1.25 distance. | SQM | 237 | | | | |
| 17 | Laying of MS flat in the excavated trench including risers, equipment earthing, overlapping of MS flat at the joints by twice of its width and welding of overlapping and cross joints including supply of electrodes, red oxide/bitumin compound, paint etc and Laying of GI earth strip for equipment earthing, along the wall, trench, cable trays etc including fabrication of supports/cleats and fixing with wall bolts, welding works, painting of earth strip and riser with red oxide paint/bitumin compound and final. For 50X6 sqmm | M | 1250 | | | | |
| 18 | Erection of 55' rails including digging, refilling, ramming of the foundation and including removal of malba, grouting with cement concrete mortar to 16 cft. of 1:3:6 ratios (1 cement, 3 Badarpur, 6 Stone blast-Cement, Sand and Mortar to be supplied | EA | 16 | | | | |

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| | by the contractor). including transportation of pole from stackingsite within 1kms.Painting of Rail with one coat of primer & two coat of Al (Paint to be supplied by the conractor).Including brick padding. | | | | | | |
| 19 | Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required. For 66 kV LA's with or witout surge counter | EA | 12 | | | | |
| 20 | Stringing of ACSR GOAT Conductor , Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings with single tension clamp for single GOAT conductor ,Single Tension String Insulator fittings with double tension clamp for twin GOAT conductor,Double Tension String Insulator fittings with single tension clamp for single GOAT conductor,Single Suspension String Insulator fittings with single drop/tension clamp for single GOAT conductor, Single Suspension String Insulator fittings with double drop/tension clamp for twin GOAT conductor,Single Suspension String Insulator fittings with single suspension clamp for single GOAT conductor,Single Suspension String Insulator fittings with double suspension clamp for twin GOAT conductor ,Bolted type 'T' Connector suitable for single GOAT conductor,Vibration Damper for GOAT Conductor, Repair Sleeve for GOAT, Mid span compression joint for ACSR GOAT, Rigid Type Spacers for twin GOAT PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES) | KM | 4.36 | | | | |

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| 21 | <p>Dismantling of ACSR GOAT Conductor, Earthwire, Insulator & Hardware Fittings i.e. Single Tension String Insulator fittings with single tension clamp for single GOAT conductor, Single Tension String Insulator fittings with double tension clamp for twin GOAT conductor, Double Tension String Insulator fittings with single tension clamp for single GOAT conductor, Single Suspension String Insulator fittings with single drop/tension clamp for single GOAT conductor, Single Suspension String Insulator fittings with double drop/tension clamp for twin GOAT conductor, Single Suspension String Insulator fittings with single suspension clamp for single GOAT conductor, Single Suspension String Insulator fittings with double suspension clamp for twin GOAT conductor, Bolted type 'T' Connector suitable for single GOAT conductor, Vibration Damper for GOAT Conductor, Repair Sleeve for GOAT, Mid span compression joint for ACSR GOAT, Rigid Type Spacers for twin GOAT PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)</p> | KM | 0.7 | | | | |
| 22 | <p>Dismantling of MS as well as galvanised structure for different equipment like isolator, C.T.'s, P.T.'s, CVT, LA's, ISO etc, cable supporting structure, 33kV/66 kV GI gantry and tower structure including consumables, welding electrode & hacksaw blades etc.</p> | MT | 3 | | | | |
| 23 | <p>Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated. For Ordinary Soil.</p> | CUM | 1072 | | | | |
| 24 | <p>Digging of test pits of required size(not</p> | Cum | 40 | | | | |

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| | lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging For Hard Rocky Soil | | | | | | |
| 25 | Laying of under ground cable in trench ,covering with RCC cable cover,covering with sand ,Sand cushion will be min 75mm below and 75mm above the cable, fixing of cable identification tags (9" X 4") at every 30 Mtrs, Laying of warning tape above 250mm of the docket, refilling the trench and ramming the surface & removal of malba if any, including watch and ward till charging of cable (This activity includes only labour jobs) for 66 KV single core cable Running Mtr | M | 3300 | | | | |
| 26 | Extra for handling of 66KV Cable from cable drum. Note:If the Drum length is more than 250Mtr. | M | 3300 | | | | |
| 27 | Providing and Laying Sand cushioning for cable route as per BRPL/BYPL specification and drawing. | CUM | 234 | | | | |
| 28 | Removal of Malba including Loading / Unloading on own vehicle. The payment shall be restricted to the quantity of sand laid. | CUM | 234 | | | | |
| 29 | Providing and laying in position specified grade of reinforced cement concrete excluding the cost of shuttering,centring,finishing and reinforcement-All work upto plinth level : 1:2:4 (1cement :2 coarse sand :4 graded stone agg.20mm nominal size.) | CUM | 22 | | | | |
| 30 | Laying of 8" O.D. GI/HDPE pipe for crossing small Nallas in the cable route. | M | 600 | | | | |

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| 31 | Charges for carrying out Route survey and identification of underground utilities of various civic agencies before/ during execution of scheme involving cable laying work. Route length will be considered for payment. Route length will be specifically verified by DGM. | M | 3000 | | | | |
| 32 | Charges for Hi pot test - Testing equipment to be provided by the contractor. For 66 KV cables | EA | 12 | | | | |
| 33 | SUPPLY OF TAG,SFTY,RCTNGL;AL;MTLC | EA | 60 | | | | |
| 34 | SUPPLY OF MRKR,CBL;ELEC BAL MRKR PASSIVE | EA | 11 | | | | |
| 35 | SUPPLY OF TAPE,SFTY BARR,150MM;PVC;DNGER 66KV BSES | M | 1100 | | | | |
| 36 | SUPPLY OF CVR,CBL;600X550X50MM;RCC | EA | 1833 | | | | |
| 37 | SUPPLY OF APD,CBL ROUTE MRKR;RCC | EA | 11 | | | | |
| 38 | SUPPLY OF PI,SPL PUR,180MM;HDPE;PE80PN6; ROLLING | M | 600 | | | | |
| 39 | SUPPLY OF Trefoil Clamp (Dimension shall be suitable to adjust 3 Nos. 66kv 1X1000sqmm cable at every 1m-- Aluminum) | EA | 900 | | | | |
| 40 | Installation and Commissioning of RFID Ball Marker (Active and Passive) | EA | 11 | | | | |
| 41 | E301-Providing Steel Barricade | M | 550 | | | | |
| 42 | Installation of RCC Cable Cover | EA | 1833 | | | | |
| 43 | Installation of RCC Cable Route marker | EA | 11 | | | | |
| 44 | Installation of Warning Tape | M | 1100 | | | | |
| 45 | Installation of Trefoil Clamp | EA | 900 | | | | |
| 46 | Making of END Termination kits | EA | 12 | | | | |



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| 47 | Electrical Inspector Fees | LS | 1 | | | | |
| Total Labour Cost (B) in Rs | | | | | | | |