

DA/UD/COR-OF/024

Dated: 15.06.2021

LETTER OF ACCEPTANCE

To,

M/s AQUARIAN ENTERPRISES

A1/52, JanakPuri,
New Delhi-110058

Ph. 011-25550169, 9818352226

Email: dalipksachdeva@gmail.com, aquarian_enterprises@yahoo.com

(hereinafter termed as Contractor)

(Kind Attention- **Mr. Dalip Kumar Sachdeva**)

Sub: - Bid No.: DA/UD/COR-OF/024 - Shifting/Modification work of 66KV/132KV EHV lines of HVPNL infringing Delhi – Gurugram - SNB RRTS Corridor.

Ref: -

- i. Press Advertisement dated 16.01.2021
- ii. Bid Reference No. DA/UD/COR-OF/024 dated 20.01.2021
- iii. Your Technical Bid opened on 26.02.2021
- iv. Post Bid clarification uploaded on CPP portal on 17.03.2021
- v. Reply of Post Bid queries downloaded on 26.03.2021
- vi. Financial Bid Opened on 21.05.2021
- vii. NCRTC's Letter no. DA/UD/COR-OF/024 dated 07.06.2021 inviting the Contractor for Negotiation on 08.06.2021.
- viii. Your letter no. AE/NCRTC/21-06/T-024/102 dated 08.06.2021

With reference to the above this is to inform to the Contractor that the Contractor's bid for the subject work of **Bid No: DA/UD/COR-OF/024 - Shifting/Modification work of 66KV/ 132KV EHV lines of HVPNL infringing Delhi – Gurugram - SNB RRTS Corridor** (hereinafter termed as the "Works") has been accepted by **National Capital Region Transport Corporation Ltd** (hereinafter termed as "Employer") at total contract price of **Rs. 31,64,42,335.28 (Indian Rupees Thirty One Crores Sixty Four Lakhs Forty Two Thousand Three Hundred Thirty Five and Twenty Eight Paise Only)**, hereinafter termed as "Contract Price". This Contract Price is inclusive of all taxes (except GST), duties, levies, cess, Royalties, insurance, all other incidental charges, overheads, profit, other levies payable by the contractor under the contract or for any other cause etc. This Contract Price is towards timely and satisfactory completion of the Works and fulfilment of the Bid conditions in its entirety.



(Bid No **DA/UD/COR-OF/024**)

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Registered & Corporate Office:

7/6, सिरी फोर्ट इंस्टीट्यूशनल एरिया, अगस्त क्रांति मार्ग, नई दिल्ली 110049

7/6, Siri Fort Institutional Area, August Kranti Marg, New Delhi 110049

CIN: U60200DL2013G0I256716

P: +91 11 41066943 F: +91 11 41066953

M: contactus@ncrtc.in

The scope of work, accepted rates and terms/conditions applicable to this LOA are as under:

1.0 Scope of Work

In terms of **Clause ITB 1.1 (Instructions to Bidders)**, Section-1 of the bid documents, the scope of work covered under this LOA is as stipulated in **Part-II Employer's Requirement** under the bid documents read with amendments referred above and considered by the Contractor in preparation and submission of their bid. The Work shall be carried out as per the referred Scope of Work.

2.0 Accepted Rates/Cost and Payment Schedule

2.1 The accepted rates for various items of work covered under this LOA are stipulated in the Bill of Quantities enclosed as **Annexure-I (Bill of Quantities)** to this LOA. The accepted rates are inclusive of all taxes (except GST), duties, levies, cess, Royalties, insurance, all other incidental charges, overheads, profit, other levies payable by the contractor under the contract or for any other cause etc. GST will be paid extra as applicable on the submission of GST Invoices for first RA bill. The subsequent RA bill shall be raised for payment upon submission of documentary evidence towards payment of GST collected on the previous bill to the GST Authorities. However, if subsequent bills are raised before return submission date of previous bill period, the documentary evidence towards payment of GST shall be provided within 7 days from the due date of such return filing. The Final bill/single bill payment shall be released on the undertaking by the Contractor for providing evidence within 7 days from the due date of such return filing for final bill based on GST provision for due dates.

2.2 In terms of **Clause ITB 14.5 of Section 2 BDS**, this is Fixed Price Contract.

3.0 Completion Period

In terms of **Clause 1.2 (c) of IFB** of the bid documents, the entire work shall be completed in a period of **09 months from** the commencement date. As per **clause 8.1 of GCC, Section-5**, the commencement date will start from **22.06.2021** i.e. 07 days from the date of issue of LOA.

4.1 Submission of Performance Security

In terms of **Clause ITB 40 (Instructions to Bidders)**, **Section-1** of the bid documents, within 28 days of receipt of this LOA by the Contractor, the Contractor shall furnish to the Employer a Performance Security in the form of Performance Bank Guarantee stipulated in **Clause 4.2 of the General Condition of Contract (GCC), Section-5 and Appendix to Bid, Section-6** of the bid document for an amount of **Rs. 94,93,270/- (Rupees Ninety Four Lakhs Ninety Three Thousand Two Hundred Seventy only)** amount equal to 3% (Three Percent) of the Contract Price. As per Clause 4.2 of GCC, the Performance Bank Guarantee must be issued on "Structure Financial Messaging System (SFMS)" platform. The Performance Security shall be valid till six months from the end of the Defect Liability Period. The original Performance Security shall be submitted to Procurement Cell of NCRTC (Corporate Office) as per **Clause 1.2 (k) of IFB**.

4.2 Retention Money

Employer shall retain an amount in a sum equal to maximum 05% of awarded contract value in terms of provisions of Additional Clause 39 of Particular Condition of Contract (PCC).



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[Signature]
15/6/21

5.0 Signing of Contract Agreement

In terms of **Clause ITB 41 of Section-1 (Instructions to Bidders)** of the bid documents, the Contractor shall enter into a contract agreement with the Employer for the works covered under this LOA within the time limits as specified therein. The Contractor shall be informed by the Employer about signing of contract agreement on receipt of acceptance of this LOA and Performance Security by the Employer.

6.0 Other Terms and Conditions

The execution of this contract shall be governed by the various stipulations in the bid documents and its amendments referred above. Any deviation from the above conditions, submitted by the Contractor in its bid, if any, stands withdrawn.

7.0 Nomination of Engineer in Charge

In terms of **Clause 3.1 of General Conditions of Contract, Section-5**, it is to inform that **Chief Project Manager/Gurugram, National Capital Region Transport Corporation Limited, Leisure Valley Road, Near Westin Hotel, Sector -29, Gurugram, Haryana – 122001** has been nominated as the Engineer for the subject Contract. The Contractor is advised to interact with the above official for further instructions as regards the execution of works.

8.0 Acceptance of the LOA

This Letter of Acceptance (LOA) is being issued in Two Original and identical sets, in favour of the Contractor. Any one set may be retained by the Contractor and the other set is required to be returned by the Contractor, duly signed and stamped stating **“Unconditionally accepted”** on each page (including the enclosures) by the authorized signatory of the Contractor, as a token of Contractor’s unconditional acceptance of the same so as to reach the undersigned within seven days of issue of this letter. This Letter of Acceptance shall constitute a binding Agreement between the Employer and the Contractor till such time a formal Agreement is signed between the Employer and the Contractor for the execution of this Contract.

Please acknowledge receipt of the letter.

Yours faithfully,

For & on behalf of
National Capital Region Transport Corporation Limited


(Sunil Bhasker)
Group General Manager/Procurement

Encl: Annexure-I (Bill of Quantities: Total 06 pages).

Copy to: CPM/Gurugram, GGM/Electrical, AGM/Finance, GM/Planning, Sr. DGM HR.

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NATIONAL CAPITAL REGION TRANSPORT CORPORATION LIMITED

Annexure - I



**Name of work : DA/UD/COR-OF/024 : Shifting/Modification work of 66KV/132KV EHV lines of HVPNL infringing Delhi
– Gurugram - SNB RRTS Corridor**

PART-III

Bill of Quantity (BOQ)

NATIONAL CAPITAL REGION TRANSPORT CORPORATION LTD

7/6, Siri Fort Institutional Area, August Kranti Marg, New Delhi-110049, Phone: 011-41066943, Fax: 011-4106 6953



BOQ

PREAMBLE

1. The Bill of Quantity should be read in conjunction with Instruction to Bidders, General and Particulars Conditions of Contract, Notice for Invitation of bids, Technical specification (if any), Employer's Requirements (if any) and Tender Drawings.
2. The accepted rates/prices tendered in the BOQ are for completed and finished items of work and complete in all respect.
3. The accepted rates/percentage are inclusive of all taxes, duties, levies, cess, Royalties, insurances & all other incidental charges except Goods and Services Tax, required to fulfill the Bid Conditions including statutory deductions viz. TDS towards Income Tax / Works Contract Tax / GST TDS / Labour Cess etc. GST shall be paid as per para 11.1.1 A (i) of Particular Conditions (PC) of Bidding Document.
4. All duties, taxes, royalties, cess and other levies payable by the Bidder under the Contract, or for any other cause (including standard specifications), on the date 28 days prior to the deadline for submission of bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder except Goods and Services Tax (GST). GST will be paid extra as applicable on the submission of GST invoices for first RA bill. The subsequent RA bill shall be raised for payment upon submission of documentary evidences towards payment of GST collected on the previous bill to the GST authorities. However, if subsequent bills are raised before return submission date of previous bill period, the documentary evidence towards payment of GST shall be provided within 7 days from the due date of such return filing. The final bill/ Single bill payment shall be released on the undertaking by the contractor/ supplier for providing evidence within 7 days from the due date of such return filing for final bill based on GST provision for due dates.



FINANCIAL BID

SUMMARY SHEET

Name of work : DA/UD/COR-OF/024 : Shifting/Modification work of 66KV/132KV EHV lines of HVPNL infringing Delhi – Gurugram - SNB RRTS Corridor

NAME OF BIDDER		M/s. AQUARIAN ENTERPRISES, A/152 Janakpuri, New Delhi - 110058			
S.No.	Description	BOQ Amount (In INR)	Percentage quoted by the bidder above/below/ at par the BOQ amount of respective part		Amount (In INR) (in fig.)
			Above/below/at par	(Percentage (%age) in figure)	
1		3	4	5	6
1	Shifting/Modification work of 66KV/132KV EHV lines of HVPNL infringing Delhi – Gurugram - SNB RRTS Corridor	₹ 26,84,50,158.24	Above	17.8775%	₹ 31,64,42,335.28




BOQ

Name of work : DA/UD/COR-OF/024: Shifting and Modification of 66/132 KV EHV Overhead line of HVPNL infringing Delhi-Gurugram-SNB RRTS Corridor

S. No	Item Description	Unit	Qty	Unit rate (In INR)	Total Amount (In INR)
Part -A : Design					
1	Design of double circuit/multi circuit Tension Type Utility Monopole Transmission line structure suitable 66 /132/220 KV EHT line including approval of reputed Govt Institutions like CPRI/IIT etc				
	a) 66 KV D/C Monopole DE, DD(30-60°) Ht-40 Mtr, (32 M BXA) for zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	b) 66 KV D/C Monopole DE, DC (0°-30°) Ht -32 Mtr,(23.5 M BXA) for zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	c) 66 KV D/C Monopole DE, DD(30 -60),HT - 38 Mtr,(30 M BXA) for zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	d) 66 KV M/C Monopole DE, DD (30°-60°),Ht-38 Mtr,(22 M BXA) for zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	e) 66 KV D/C Monopole DE, DC (0°-30°) Ht -25.8 Mtr,(17.5 M BXA)for zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	f) 132 KV D/C Monopole DE, DD (30 - 60°),Ht-46.0 Mtr,(32 M BXA) for Zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	g)66 KV D/C Monopole DE, DE, DB(0-15) Ht 21 Mt (12.5 M BXA) for panther conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	h) 66 KV D/C Monopole DE, DB(0-15) Ht 25 Mt (16.5 M BXA) for panther conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	i) 66 KV D/C Monopole DE, DD(30-60) Ht 38 Mt (29.5M BXA) for panther conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	j) 66 KV D/C Monopole DE, DC(0-30) ht 38 Mt (29.5 M BXA) for Zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	k) 66 KV D/C Monopole DE, cable Termination ,DD(0-10) ht 21 Mt (12.5 M BXA) for Zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	l) 66 KV D/C Monopole DE, DB(0-15) Ht 22.5 Mt (14.0 M BXA) for Zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	m) 220 KV D/C Monopole DE,DD(30-60)Ht 40 Mt (21.5 M BXA) for Moose conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	n) 220 KV D/C Monopole DE, DD(30-60) Ht 51.7 Mt 33.7 M BXA) for Moose conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	o) 220 KV D/C Monopole DE, DC (0-30 HT 48 Mt (29.5 M BXA) for Moose conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	p) 220 KV D/C Monopole DE, DB(0-15) Ht 35 Mt (16.5M BXA) for Moose conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
	q) 66 KV D/C Monopole DE, DD(60-90),HT - 38 Mtr,(30 M BXA) for zebra conductor	Job	1	₹ 2,66,955.00	₹ 2,66,955.00
2	Design of foundation double circuit/multi circuit Tension Type Utility Monopole Transmission line structure suitable 66 /132/220 KV EHT lines considering all possible mechanical loading under extreme condition including approval of reputed Govt Institutions like CPRI/IIT etc				
	a) 66 KV D/C Monopole DE, DD(30-60°) Ht-40 Mtr, (32 M BXA) for zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	b) 66 KV D/C Monopole DE, DC (0°-30°) Ht -32 Mtr,(23.5 M BXA) for zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	c) 66 KV D/C Monopole DE, DD(30 -60),HT - 38 Mtr,(30 M BXA) for zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	d) 66 KV M/C Monopole DE, DD (30°-60°),Ht-38 Mtr,(22 M BXA) for zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	e) 66 KV D/C Monopole DE, DC (0°-30°) Ht -25.8 Mtr,(17.5 M BXA)for zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	f) 132 KV D/C Monopole DE, DD (30 - 60°),Ht-46.0 Mtr,(32 M BXA) for Zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	g)66 KV D/C Monopole DE, DE, DB(0-15) Ht 21 Mt (12.5 M BXA) for panther conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	h) 66 KV D/C Monopole DE, DB(0-15) Ht 25 Mt (16.5 M BXA) for panther conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	i) 66 KV D/C Monopole DE, DD(30-60) Ht 38 Mt (29.5M BXA) for panther conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	j) 66 KV D/C Monopole DE, DC(0-30) ht 38 Mt (29.5 M BXA) for Zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	k) 66 KV D/C Monopole DE, cable Termination ,DD(0-10) ht 21 Mt (12.5 M BXA) for Zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	l) 66 KV D/C Monopole DE, DB(0-15) Ht 22.5 Mt (14.0 M BXA) for Zebra conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	m) 220 KV D/C Monopole DE,DD(30-60)Ht 40 Mt (21.5 M BXA) for Moose conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	n) 220 KV D/C Monopole DE, DD(30-60) Ht 51.7 Mt 33.7 M BXA) for Moose conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	o) 220 KV D/C Monopole DE, DC (0-30 HT 48 Mt (29.5 M BXA) for Moose conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
	p) 220 KV D/C Monopole DE, DB(0-15) Ht 35 Mt (16.5M BXA) for Moose conductor	Job	1	₹ 2,82,066.00	₹ 2,82,066.00
Total of Part A - Design					₹ 90,51,291.00
Part B: Supply					
3	Supply at site of Double Circuit/multi circuit utility Monopole suitable for 66 /132/220 KV lines(price offered are all structure components of the pole,Anchor bolt Anchor,Anchor Plate template for following:-				
	a) 66 KV D/C Monopole DE, DD(30-60°) Ht-40 Mtr, (32 M BXA) for zebra conductor	Nos	2	₹ 39,31,808.74	₹ 78,63,617.48
	b) 66 KV D/C Monopole DE, DC (0°-30°) Ht -32 Mtr,(23.5 M BXA) for zebra conductor	Nos	1	₹ 34,29,402.61	₹ 34,29,402.61
	c) 66 KV D/C Monopole DE, DD(30 -60),HT - 38 Mtr,(30 M BXA) for zebra conductor	Nos	1	₹ 44,34,214.87	₹ 44,34,214.87
	d) 66 KV M/C Monopole DE, DD (30°-60°),Ht-38 Mtr,(22 M BXA) for zebra conductor	Nos	2	₹ 81,48,331.79	₹ 1,62,96,663.59
	e) 66 KV D/C Monopole DE, DC (0°-30°) Ht -25.8 Mtr,(17.5 M BXA)for zebra conductor	Nos	1	₹ 27,14,321.05	₹ 27,14,321.05
	f) 132 KV D/C Monopole DE, DD (30 - 60°),Ht-46.0 Mtr,(32 M BXA) for Zebra conductor	Nos	1	₹ 54,39,027.14	₹ 54,39,027.14
	g)66 KV D/C Monopole DE, DE, DB(0-15) Ht 21 Mt (12.5 M BXA) for panther conductor	Nos	1	₹ 23,31,862.29	₹ 23,31,862.29
	h) 66 KV D/C Monopole DE, DB(0-15) Ht 25 Mt (16.5 M BXA) for panther conductor	Nos	1	₹ 26,56,233.67	₹ 26,56,233.67



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S. No	Item Description	Unit	Qty	Unit rate (In INR)	Total Amount (In INR)
	i) 66 KV D/C Monopole DE, DD(30-60) Ht 38 Mt (29.5M BXA) for panther conductor	Nos	2	₹ 44,34,214.87	₹ 88,68,429.75
	j) 66 KV D/C Monopole DE, DC(0-30) ht 38 Mt (29.5 M BXA) for Zebra conductor	Nos	4	₹ 37,43,058.52	₹ 1,49,72,234.07
	k) 66 KV D/C Monopole DE, cable Termination ,DD(0-10) ht 21 Mt (12.5 M BXA) for Zebra conductor	Nos	2	₹ 23,31,862.29	₹ 46,63,724.58
	l) 66 KV D/C Monopole DE, DB(0-15) Ht 22.5 Mt (14.0 M BXA) for Zebra conductor	Nos	1	₹ 26,68,340.33	₹ 26,68,340.33
	m) 220 KV D/C Monopole DE,DD(30-60)Ht 40 Mt (21.5 M BXA) for Moose conductor	Nos	1	₹ 50,35,601.85	₹ 50,35,601.85
	n) 220 KV D/C Monopole DE, DD(30-60) Ht 51.7 Mt 33.7 M BXA) for Moose conductor	Nos	1	₹ 59,98,730.87	₹ 59,98,730.87
	o) 220 KV D/C Monopole DE, DC (0-30 HT 48 Mt (29.5. M BXA) for Moose conductor	Nos	1	₹ 56,13,749.64	₹ 56,13,749.64
	p) 220 KV D/C Monopole DE, DB(0-15) Ht 35 Mt (16.5M BXA) for Moose conductor	Nos	1	₹ 48,19,992.94	₹ 48,19,992.94
	q) 66 KV D/C Monopole DE, DD(60-90),HT - 38 Mr,(30 M BXA) for zebra conductor	Job	1	₹ 44,34,214.87	₹ 44,34,214.87
4	Febrication and supply of tower part with stubs,bolts,U-bolts,Hangers,D-shakle etc. of various of towers of 66KV/132KV as per HVPNL specifications with suitable/required extension at site	MT	59.46	₹ 84,866.00	₹ 50,46,132.36
5	Supply of 66/132 KV insulator (Polymer Long Rod Insulator)				
	i) 70 KN Suspension 66KV	Nos	49	₹ 1,875.80	₹ 91,914.20
	ii) 90 KN Tension 66KV	Nos	123	₹ 1,972.00	₹ 2,42,556.00
	iii) 120 KN Tension 66KV	Nos	342	₹ 2,077.80	₹ 7,10,607.60
	iv) 70 KN Suspension for 132kV	Nos	4	₹ 2,692.78	₹ 10,771.12
	iv) 120 KN Tension for 132kV	Nos	36	₹ 3,141.11	₹ 1,13,079.96
6	Supply of 66 KV Single Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	162	₹ 2,202.80	₹ 3,56,853.60
7	Supply of 66 KV Double Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications	set	96	₹ 4,313.30	₹ 4,14,076.80
8	Supply of 66 KV Single Tension String hardware fitting suitable for ACSR panther conductor compression type complete in all respect as per HVPNL specifications	set	51	₹ 1,673.80	₹ 85,363.80
9	Supply of 66 KV Double String hardware fitting suitable for ACSR panther conductor compression type complete in all respect as per HVPNL specifications .	set	24	₹ 4,313.30	₹ 1,03,519.20
10	Supply of 66 KV Single Suspension pilot String for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	37	₹ 1,127.40	₹ 41,713.80
11	Supply of 66 KV Single Suspension pilot String for ACSR panther conductor compression type complete in all respect as per HVPNL specifications.	set	12	₹ 1,127.40	₹ 13,528.80
12	Supply of 132 KV Single Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	24	₹ 2,202.80	₹ 52,867.20
13	Supply of 132 KV Double Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	6	₹ 4,313.30	₹ 25,879.80
14	Supply of 132 KV single suspension pilot String for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	12	₹ 1,127.40	₹ 13,528.80
15	Supply of 66 KV Single Tension String hardware fitting suitable for Twin ACSR panther conductor compression type complete in all respect as per HVPNL specifications	set	12	₹ 3,347.60	₹ 40,171.20
16	Supply of 66 KV Double String hardware fitting suitable for Twin ACSR panther conductor compression type complete in all respect as per HVPNL specifications .	set	12	₹ 4,313.30	₹ 51,759.60
17	Supply of Vibration Dampers for ACSR Panther Conductor along with all accessories as per HVPNL specification	No	222	₹ 529.10	₹ 1,17,460.20
18	Supply of Vibration Dampers for ACSR Zebra Conductor along with all accessories as per HVPNL specification	No	576	₹ 694.50	₹ 4,00,032.00
19	Supply ACSR of Panther conductor as per HVPNL specification	km	12.89	₹ 1,53,197.70	₹ 19,74,718.35
20	Supply of ACSR Zebra conductor as per HVPNL specification	Km	25.57	₹ 2,65,562.10	₹ 67,90,422.90
21	Supply of Earth wire 7/3.15 mm as per HVPNL specification	Km	5.68	₹ 38,285.20	₹ 2,17,459.94
22	Supply of Earth wire Tension Clamps as per HVPNL specifications	No	62	₹ 635.80	₹ 39,419.60
23	Supply of vibration Dampers for Earth wire as per HVPNL specifications	No	124	₹ 428.10	₹ 53,084.40
24	Supply of Flexible Copper Earth bond as per HVPNL specifications	No	67	₹ 521.40	₹ 34,933.80
25	Supply of Repair Sleeves for panther conductor as per HVPNL specifications	No	5	₹ 254.90	₹ 1,274.50
26	Supply of Repair Sleeves for Zebra conductor as per HVPNL specifications	No	17	₹ 254.90	₹ 4,333.30
27	Supply of Number Plate as per HVPNL specifications	No	31	₹ 269.30	₹ 8,348.30
28	Supply of Danger Plate as per HVPNL specifications	No	31	₹ 269.30	₹ 8,348.30
29	Supply of Ckt Plate (Set of two)	Set	22	₹ 269.30	₹ 5,924.60
30	Supply of Phase Plate (Set of Three) as per HVPNL specifications	Set	54	₹ 269.30	₹ 14,542.20
31	Supply of Anti Climbing Device for lattice tower as per HVPNL specifications	Set	7	₹ 7,503.10	₹ 52,521.70
32	Supply of pipe Earthing material (pipe, Flat& GI strip) complete in all respect as per HVPNL specification	Set	85	₹ 4,629.80	₹ 3,93,533.00

S. No	Item Description	Unit	Qty	Unit rate (In INR)	Total Amount (In INR)
33	Supply of 66 KV XLPE cable 1x1200 mm2 Aluminium milliken conductor XLPE insulated cable as per HVPNL Technical specification	Mtrs	5100	₹ 2,260.60	₹ 1,15,29,060.00
34	Supply of 66KV XLPE cable End Termination as per technical specification suitable for 1x1200 mm2 Aluminium milliken conductor XLPE insulated cable as per HVPNL specification	No	20	₹ 57,908.80	₹ 11,58,176.00
35	Supply of 66 KV Straight Through Joint for cable as per technical specification suitable for 1x1200 mm2 Aluminium milliken conductor XLPE insulated cable as per HVPNL specification	No	20	₹ 62,045.20	₹ 12,40,904.00
36	Supply of 66 KV Lightning polymer Arrestor along with earthing material as per HVPNL specifications	No	15	₹ 16,949.15	₹ 2,54,237.25
37	Supply of Single Core 1x240 mm2 Copper conductor PVC insulated unarmoured 3.3KV sheet bounded cable as per HVPNL specifications	Mtrs	800	₹ 2,043.20	₹ 16,34,560.00
38	Supply of single phase link box with SVL for each cable as per HVPNL specification	No	16	₹ 30,301.10	₹ 4,84,817.60
39	Supply of single phase link box without SVL for each cable as per HVPNL specification	No	16	₹ 25,491.40	₹ 4,07,862.40
40	Supply of 3 phase link box with SLV for each cable as per HVPNL specification	No	2	₹ 40,401.50	₹ 80,803.00
41	Supply of providing TMT reinforcement steel of FE -500 Grade from approved list supplier, straightening, cutting, bending, tying lap/but welding placing including binding with Gi binding wire 18 SWG in all structure heights and depth, complete as per drawing, specification and direction of Engineer-in Charge. The scope of work will also include application of one coat of cement slurry inhibitor solution as per manufactures instruction or approval by the Engineer-in Incharge.	MT	410	₹ 62,844.15	₹ 2,57,66,101.50
42	Supply of Warning Tape as per HVPNL specifications	Mtrs	600	₹ 36.60	₹ 21,960.00
43	Supply of HDPE pipes 200 mm dia as per HVPNL specifications	Mtrs	2900	₹ 692.60	₹ 20,08,540.00
44	Supply of cable termination structure complete with foundation nuts & bolts including earthing materials etc in all respect as per HVPNL specification.	Nos	8	₹ 83,342.06	₹ 6,66,736.48
45	Fabrication & supply of fencing wire mesh around the monopole Frame of angle iron 25mm x 25mm making grid size 1.5mm x 1.5mm or part having wiremesh of 8 SWG in between grids to cover the foundation on four sides. The angle iron grid & wire mesh to be fixed with each other by 100mm channel and soldering with 1.5 inch angle with 25x6mm MS strip at the back of angle with proper spacing including door of size 1.5mx 2m with suitable supports, brackets complete with locking arrangements in all respect as per HVPNL requirement.	Sqft	480	₹ 197.54	₹ 94,819.20
Total of Part B:-Supply					₹ 16,51,19,619.96

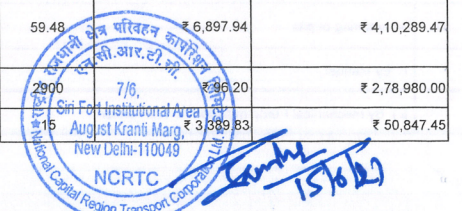
PART C: Erection, Testing & commissioning

46	Detail Survey including preparation of profiles and drawings for a section of 11 Nos transmission line	Km	7.99	₹ 1,11,500.00	₹ 8,90,885.00
47	Erection, Assembling and Commissioning of D/C following tension type of monopole suitable for 66 KV & 132 KV Transmission line with appropriate crane and other equipments in all respects including soil levelling ramming, fixing of cross arms, ladder, step bolts & anti climbing device etc.				
	a) 66 KV D/C Monopole DE, DD(30-60°) Ht-40 Mtr, (32 M BXA) for zebra conductor	Job	2	₹ 4,37,443.40	₹ 8,74,886.80
	b) 66 KV D/C Monopole DE, DC (0°-30°) Ht -32 Mtr, (23.5 M BXA) for zebra conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	c) 66 KV D/C Monopole DE, DD(30 -60), HT - 38 Mtr, (30 M BXA) for zebra conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	d) 66 KV M/C Monopole DE, DD (30°-60°), Ht-38 Mtr, (22 M BXA) for zebra conductor	Job	2	₹ 4,37,443.40	₹ 8,74,886.80
	e) 66 KV D/C Monopole DE, DC (0°-30°) Ht -25.8 Mtr, (17.5 M BXA) for zebra conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	f) 132 KV D/C Monopole DE, DD (30 - 60°), Ht-46.0 Mtr, (32 M BXA) for Zebra conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	g) 66 KV D/C Monopole DE, DE, DB(0-15) Ht 21 Mt (12.5 M BXA) for panther conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	h) 66 KV D/C Monopole DE, DB(0-15) Ht 25 Mt (16.5 M BXA) for panther conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	i) 66 KV D/C Monopole DE, DD(30-60) Ht 38 Mt (29.5M BXA) for panther conductor	Job	2	₹ 4,37,443.40	₹ 8,74,886.80
	j) 66 KV D/C Monopole DE, DC(0-30) ht 38 Mt (29.5 M BXA) for Zebra conductor	Job	4	₹ 4,37,443.40	₹ 17,49,773.60
	k) 66 KV D/C Monopole DE, cable Termination, DD(0-10) ht 21 Mt (12.5 M BXA) for Zebra conductor	Job	2	₹ 4,37,443.40	₹ 8,74,886.80
	l) 66 KV D/C Monopole DE, DB(0-15) Ht 22.5 Mt (14.0 M BXA) for Zebra conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	m) 220 KV D/C Monopole DE, DD(30-60) Ht 40 Mt (21.5 M BXA) for Moose conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	n) 220 KV D/C Monopole DE, DD(30-60) Ht 51.7 Mt 33.7 M BXA) for Moose conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	o) 220 KV D/C Monopole DE, DC (0-30) HT 48 Mt (29.5 M BXA) for Moose conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	p) 220 KV D/C Monopole DE, DB(0-15) Ht 35 Mt (16.5M BXA) for Moose conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
	q) 66 KV D/C Monopole DE, DD(60-90), HT - 38 Mtr, (30 M BXA) for zebra conductor	Job	1	₹ 4,37,443.40	₹ 4,37,443.40
48	De-watering of pits				
	i) By Manual	Hr.	400	₹ 91.70	₹ 36,680.00
	ii) By mechanical Pump minimum 5 H.P. Motor	Hr.	1000	₹ 297.34	₹ 2,97,340.00



S. No	Item Description	Unit	Qty	Unit rate (In INR)	Total Amount (In INR)
49	Stringing/ Erection ,Testing and commissioning of following ACSR Conductor, earth wire, hoising of insulators, hardware fittings, vibration damper and Jumping etc.				
	a) ACSR Zebra Conductors	KM	25.57	₹ 17,507.30	₹ 4,47,661.66
	b) ACSR Panther Conductor	KM	12.89	₹ 12,024.30	₹ 1,54,993.23
	c) Earth Wire 7/3.15	KM	5.68	₹ 12,601.40	₹ 71,575.95
	d) 70 KN Suspension 66KV	Nos	49	₹ 37.50	₹ 1,837.50
	e) 90 KN Tension 66KV	Nos	123	₹ 37.50	₹ 4,612.50
	f) 120 KN Tension 66KV	Nos	342	₹ 37.50	₹ 12,825.00
	g)) 70 KN Suspension 132kV	Nos	4	₹ 37.50	₹ 150.00
	h) 120 KN Tension 132 KV	Nos	36	₹ 37.50	₹ 1,350.00
	i) 66 KV Single Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	102	₹ 37.50	₹ 6,075.00
	j) 66 KV Double Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications	set	96	₹ 37.50	₹ 3,600.00
	k) 66 KV Single Tension String hardware fitting suitable for ACSR panther conductor compression type complete in all respect as per HVPNL specifications	set	51	₹ 36.60	₹ 1,866.60
	l) 66 KV Double String hardware fitting suitable for ACSR panther conductor compression type complete in all respect as per HVPNL specifications .	set	24	₹ 37.50	₹ 900.00
	m) 66 KV Single Suspension pilot String for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	37	₹ 37.50	₹ 1,387.50
	n) 66 KV Single Suspension pilot String for ACSR panther conductor compression type complete in all respect as per HVPNL specifications.	set	12	₹ 37.50	₹ 450.00
	o) 132 KV Single Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	24	₹ 37.50	₹ 900.00
	p) 132 KV Double Tension String hardware fitting suitable for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	6	₹ 37.50	₹ 225.00
	q) 132 KV single suspension pilot String for ACSR Zebra conductor compression type complete in all respect as per HVPNL specifications.	set	12	₹ 37.50	₹ 450.00
	r) 66 KV Single Tension String hardware fitting suitable for Twin ACSR panther conductor compression type complete in all respect as per HVPNL specifications	set	12	₹ 37.50	₹ 450.00
	s) 66 KV Double String hardware fitting suitable for Twin ACSR panther conductor compression type complete in all respect as per HVPNL specifications .	set	12	₹ 37.50	₹ 450.00
	t) Vibration Dampers for ACSR Panther Conductor along with all accessories as per HVPNL specification	Nos	222	₹ 36.60	₹ 8,125.20
	u) Vibration Dampers for ACSR Zebra Conductor along with all accessories as per HVPNL specification	Nos	576	₹ 36.60	₹ 21,081.60
	v) Earth wire Tension Clamps as per HVPNL specifications	No	64	₹ 36.60	₹ 2,342.40
	w) Vibration Dampers for Earth wire as per HVPNL specifications	No	128	₹ 36.60	₹ 4,684.80
	x) Flexible Copper Earth bond as per HVPNL specifications	No	69	₹ 36.60	₹ 2,525.40
	y) Repair Sleeves for panther/Zebra conductor as per HVPNL specifications	No	5	₹ 36.60	₹ 183.00
	z) Warning Tape as per HVPNL specifications	Mtrs	600	₹ 7.70	₹ 4,620.00
50	Erection, Testing & Commissioning of 66KV XLPE cable End Termination as per technical specification suitable for 1x1200 mm2. Alluminium milliken conductor XLPE insulated cable as per HVPNL specification	Nos	20	₹ 13,851.90	₹ 2,77,038.00
51	Erection, Testing & Commissioning of 66 KV Straight Through Joint for cable as per technical specification suitable for 1x1200 mm2 Alluminium milliken conductor XLPE insulated cable as per HVPNL specification	Nos	20	₹ 17,314.90	₹ 3,46,298.00
52	Fixing & erection of following accessories.				
	a) Pipe earthing of Monopole/cable /Lattice Towers	Sets	85	₹ 3,289.80	₹ 2,79,633.00
	b) Number plate	No.	31	₹ 32.70	₹ 1,013.70
	c) Circuit Plate(set of 2)	No.	22	₹ 32.70	₹ 719.40
	d) Danger plate	No.	31	₹ 32.70	₹ 1,013.70
	e) Phase Plate (1 set= 3 Plate of RYB colour)	Set	54	₹ 32.70	₹ 1,765.80
53	Supply and Erection of Galvanised steel barbed wire on monopole for making anti climbing arrangement	KG	1400	₹ 67.70	₹ 94,780.00
54	Erection of Anti Climbing Device for lattice tower as per HVPNL specifications	Set	7	₹ 1,298.60	₹ 9,090.20
55	Detail Survey, Laying , Testing and commissioning of Double circuit/single circuit with 1200 Sqmm Aluminium Milliken conductor 66KV XLPE cable including loops and risers in trefoil formation with one spare for each circuit (6+2) and civil work complete in all respect including Manholes for jointing bays if required ,on through rate basis as per technical specification with open cut trench method (directly Buried).	Mtrs	4220	₹ 673.40	₹ 28,41,748.00
56	Detail Survey, Laying, testing and commissioning of double circuit/Single Circuit with 1200 Sqmm Aluminium Milliken conductor 66KV XLPE cable intrefoil formation with one spare for each circuit (6+2) and Civil work complete in all respect including Manholes for jointing bays, if required , on through rate basis as per technical specification with trench less method .	Mtrs	880	₹ 1,587.20	₹ 13,96,736.00
57	Erection of Tower structure complete with foundation nuts & bolts, studs ,step bolts ,hangers , D-shackle etc. punching ,Tag welding etc. complete in all respect as per HVPNL specification	MT	59.48	₹ 6,897.94	₹ 4,10,289.47
58	Erection /Laying of HDPE pipe required for trenchless portion /various crossing	Meter	2900	₹ 96.20	₹ 2,78,980.00
59	Installation of Polymer LAs alongwith their earthing with surge counter and fencing	No	15	₹ 3,389.83	₹ 50,847.45

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S. No	Item Description	Unit	Qty	Unit rate (In INR)	Total Amount (In INR)
60	Making of Termination point	No	8	₹ 1,27,664.55	₹ 10,21,316.40
61	Supply of Single Core 1x240 mm ² Copper conductor PVC insulated unarmoured 3.3KV sheet bounded cable as per HVPNL specifications	Mtrs	800	₹ 175.10	₹ 1,40,080.00
62	Erection, Testing & Commissioning of Single phase link boxes with SVL, Single phase link boxes without SVL and 3 phase link box for each cable/circuit complete in all respect as per HVPNL specification	No	34	₹ 9,330.80	₹ 3,17,247.20
63	Providing 1 mts high temporary barricade and arrangement for traffic diversion safety etc as per requirement of site	RM.	600	₹ 1,342.28	₹ 8,05,368.00
64	Providing 2.0 meter high tempory barricade and arrangement for traffic diversion such as traffic signals during construction at site for day and night as per the requirement during construction of foundation /other activities require traffic diversion safety etc.This arrangement has to be maintained till completion of such activities . Local shifting of barricading along with all associated accessories at a particular location may be required during execution and may require for traffic management . Nothing shall be paid extra including shifting etc.	RM.	300	₹ 2,684.56	₹ 8,05,368.00
65	Fabrication, supply, fixing/Erection and Painting of fencing wire mesh around the monopole Frame of angle iron 25mm x 25mm making grid size 1.5mm x 1.5mm or part having wiremesh of 8 SWG in between grids to cover the foundation on four sides. The angle iron grid & wire mesh to be fixed with each other by 100mm channel and soldering with 1.5 inch angle with 25x6mm MS strip at the back of angle with proper spacing including door of size 1.5m x 2m with suitable supports ,brackets complete with locking arrangements in all respect as per HVPNL requirement .	Sq.Ft	480.00	₹ 197.54	₹ 94,819.20
	Dismantling of Tower, conductor including earth wire & Hardware fittings etc.				
66	a) Dismantling of Existing of panther/Zebra conductor complete with H/W fittings , insulators for above portion of line and their transportation proper staking at any dedicated store and handed over to HVPNL	KMs	32.28	₹ 4,809.70	₹ 1,55,257.12
67	b) Dismantling of Existing of Earthwire complete with H/W fittings for above portion of line and their transportation proper staking at any dedicated store and handed over to HVPNL	Km	6.65	₹ 1,154.30	₹ 7,676.10
68	Dismantling of Tower structure and their transportation & proper stacking at any dedecated store of HVPNL. The dismantling of tower shall also include dismantling of stub concrete upto a depth of 1 meter from natural Ground level back filling ,compaction and cleaning the site off debris. (20+24)	MT	153.44	₹ 4,369.00	₹ 6,70,379.36
TOTAL OF PART C: Erection Testing and commissioning					₹ 2,24,86,333.04
PART D- Foundation Work - Pile/Open					
69	Proving and installing cast-in situ vertical bored piles of approximate depth as per drawing and with M35 grade of concrete.(using Portland stag cement) including all operations such as installation and shifting of piling rig etc. in all soil. The cost shall also include the cost of empty boring wherever (measurement shall be from cut-off level to founding level). The item includes disposal of earth,muck,slush released from pile, top loads . Reinforcement shall be paid seperately. rate shall include cost of using required dosage of admixture in concrete for obtaining required workability as per approval of Engineer . The items includes drilling and socketting in hand rock at required depth .				
70	a) Considering 600 mm dia Pile. i) By hydraulic rigs using partial depth casting with or without bentonite	RM.	600	₹ 6,332.13	₹ 37,99,278.00
	b) Considering 800 mm dia Pile. i) By hydraulic rigs using partial depth casting with or without bentonite	RM.	800	₹ 8,167.33	₹ 65,33,864.00
71	Carrying out Static routine vertical load tests as per relevant IS codes including all arrangement for measuring deflections and submitting reports. This includes making of pile head ready for testing at the desired level supporting/erection arrangement (including reaction piles/soil/rock anchor, if any) for the kenledge load	No	1	₹ 4,58,850.00	₹ 4,58,850.00
72	Non destructive integrity testing of cast-in-situ piles of 800 mm dia and as per specification and submitting load.	No	1	₹ 2,573.10	₹ 2,573.10
73	Integrity pile test using cross hole sonic logging as per the provision of ASTM standard D6760.	No	1	₹ 4,129.65	₹ 4,129.65
74	Providing M 35/20 concrete (using portland Slag Cement) for following concrete work. Pile cap including excavation through existing concrete and water bond macadam road /Bituminous road/cement road of all thickness including dismantalling other structures, dead utilities etc. ans soil including dewatering, pumping and bailing out water ,strutting and shoring etc. . This item also includes formwork and backfilling in foundation including watering compacting with a vibratory plate compactor and loading ,leading and disposal of surplus excavated material using lockable and covered trucks so as to ensure that during transportation the carried material does not spill out Max lead to dumping ground will be leads (average anticipated load will be 10Km)Reinforcement shall be paid seperately. Rate shall include cost of using require dosage of admixture in concrete as required at site.	Cum.	4292.5	₹ 8,883.34	₹ 3,81,31,736.95
75	Excavation of pits of required width for tower/monopole foundation including getting out the excavated soil and then returning the soil as required. In layers not exceeding 20 cm in depth including consolidation each deposited layer by ramming, watering etc and disposing of surplus excavated soil as derected within a load of 50 mtrs.	Cum.	9100	₹ 273.20	₹ 24,86,120.00
76	Cement concreting for PCC/RCC work in bases, raft and footing for the tower foundations including cost of centering and shuttering. a) 1:3:6 (1 Cement: 3 Coarse sand: 6 graded stone aggregate. 40 mm normal) b) 1:2:4 (1 Cement: 2 Coarse sand: 4 graded stone aggregate 40 mm normal)	Cum.	650	₹ 6,084.35	₹ 39,54,827.50
		Cum.	2216	₹ 7,410.44	₹ 1,64,21,535.04
TOTAL OF PART D PILE /OPEN FOUNDATION					₹ 7,17,92,914.24
SUMMARY OF SCHEME					
	TOTAL OF PART -A - DESIGN				₹ 90,51,291.00
	TOTAL OF PART -B - SUPPLY				₹ 16,51,19,619.96
	TOTAL OF PART -C - ERECTION , TESTING & COMMISSIONING				₹ 2,24,86,333.04
	TOTAL OF PART -D- PILE/OPEN FOUNDATION				₹ 7,17,92,914.24
	GRAND TOTAL (PART-A + PART-B + PART-C + PART-D)				₹ 26,84,50,158.24

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