

**AMENDMENT IN SPECIFICATION AGAINST TN-3668 FOR  
CONSTRUCTION OF 132KV TRANSMISSION LINES ON TURNKEY BASIS**

**(CLAUSE NO. 1.15 “QUALIFYING REQUIREMENT OF BIDDER” OF SECTION-I,  
“INSTRUCTION TO BIDDERS” OF SPECIFICATION)**

**1.15 QUALIFYING REQUIREMENT OF BIDDER**

Bidder shall be required to fulfill qualifying requirements detailed here under:

**1.15.1 TECHNICAL CRITERIA :**

**(i) EXPERIENCE:**

The bidder should have successfully Surveyed, optimized tower locations and based thereon erected and strung not less than 80% of the route length of tendered transmission line/lots of lines of 110KV class or higher voltage class on turnkey basis by supplying atleast tower material within the last seven years immediately preceding the date of bid opening.

Bidders having experience as detailed above of 66KV Transmission lines on Towers and meeting the qualifying requirement in other aspects within the last seven years immediately preceding the date of bid opening may be considered qualified for one package of 132KV lines as trial order. The next order will be awarded on successful completion of awarded package.

**(ii) EQUIPMENT / MATERIAL CAPABILITIES:**

**Tower material**

The bidder for the line work should own, or have assured access to the tower material from the manufacturer having manufacturing facilities as under:

(i) Manufacturing capacity per year for tower members:- 5000 MT

(ii) Minimum quantity supplied/ manufactured complete parts of 110KV and / or higher voltage towers in a year in any one financial year during the last 5 years immediately preceding the date of bid opening :- 2500 MT.

(The bidder should produce a notarised copy of certificate from a Chartered Accountant certifying capacity / Annum, quantity manufactured/ supplied year wise).

**Other equipment/Material:**

The bidder for the line work should own, or have assured access to the supply of Disc Insulator, hardware fittings & accessories for conductor and earth wire, galvanised nuts & bolts, washers/ spring washers, forged items, danger plate/phase plate/number plate /circuit plate and pipe type & Counterpoise type earthing sets from the approved manufacturers (vendors) covered in the list as mentioned in Annexures I&II (ACSR conductor & GSS earth wire will be provided by RVPN). The bidder shall furnish his own confirmation to the effect that he has assured access for all the requisite material for construction of line commensurate with the completion schedule.

**ANNEXURE-I****LIST OF APPROVED VENDORS FOR MAJOR 132KV TRANSMISSION LINE MATERIAL/EQUIPMENTS****ACSR Conductor (PANTHER/ZEBRA)**

TO BE SUPPLIED BY RVPNL

**Disc insulators (45KN, 70KN &120KN )**

- (i) M/s BHEL, Bangalore
- (ii) M/s Aditya Birla Insulators Ltd., Rishra
- (iii) M/s. WSI, Porur

**GSS Earth-wire (7/3.15mm / 7/4.00mm)**

TO BE SUPPLIED BY RVPNL

**Hardware fittings & Accessories for conductor and Earth-wire**

- (i) M/s EMI Transmission Ltd., Mumbai
- (ii) M/s International Transmission Products Pvt. Ltd., Mumbai.
- (iii) M/s. EMC Steelal Limited, Kolkatta
- (iv) M/s Asbesco India Pvt. Ltd., Kolkatta
- (v) M/s Rajasthan Transmat Pvt. Ltd., Jaipur
- (vi) M/s Burma Electro corporation, Jalandhar city
- (vii) M/s Tyco Electronics (I) Pvt. Ltd., New Delhi
- (viii) M/s. IAC Electricals Pvt. Ltd., Kolkatta
- (ix) M/s. TAG Corporation, Chennai

**Forged items (D shackles, Hangers,U-Bolts) , Foundation Bolts & Nuts & tower accessories (like anti climbing devices, bird guards etc.)**

- (i) M/s EMI, Thane
- (ii) M/s Z.M. Engg. works, Mumbai
- (iii) M/s Modern Engineering Works, Mumbai
- (iv) M/s General Forging Works, Mumbai
- (vi) M/s. Aisha Transmission, Jaipur

To be supplied along-with Towers through Tower manufacturers only.

**NOTE:**

The above material & equipments shall be supplied by the contractor from the vendors as specified in the above vendor list only.

## ANNEXURE - II

### **LIST OF APPROVED VENDORS FOR OTHER 132KV TRANSMISSION LINE MATERIAL/EQUIPMENTS**

#### **Galvanized Bolts & Nuts & Step Bolts**

- (i) M/s A.V. Forgings, Mohali
- (ii) M/s Ravi Engineers, Amritsar
- (iii) M/s GKW, Calcutta
- (iv) M/s Karamtara Fastners, Mumbai
- (v) M/s Nexo Ind. Pvt. Ltd., Ludhiana
- (vi) M/s Anand Bolts, Ludhiana.
- (vii) M/s Techman(India), Chandigarh.
- (viii) M/s N.L.Engineers Pvt. Ltd. Mohali.
- (ix) M/s. Deepak Fasteners, Ludhiana
- (x) M/s. Forex Fasteners, Ludhiana
- (xi) M/s. Garg Fasteners, Ludhiana

#### **Washers/spring Washers**

- (i) M/s Springlock Industries, Vadodara
- (ii) M/s Chempromech Engineers, Nagpur
- (iii) M/s Forbes & Gokak Ltd., Mumbai
- (iv) M/s Navin Metal Industries, Kolkata
- (v) M/s Nexo Ind. Pvt. Ltd., Ludhiana
- (vi) M/s N.L.Engineers Pvt. Ltd. Mohali.
- (vii) M/s Royal Springlock Industries , Ludhiana
- (viii) M/s. Deepak Fasteners, Ludhiana
- (ix) M/s. Forex Fasteners, Ludhiana

#### **Danger plate/Phase plate/Number plate/Circuit plate**

- (i) M/s Hind Enamel Works, Mumbai
- (ii) M/s J.K. Ceramicss, Pune
- (iii) M/s Lohar Engineers, Jaipur/Mumbai
- (iv) M/s. Primeir Enamle, Aligarh

#### **Pipe type and Counter Poise earthing**

- (i) M/s Reliance Engineering Co., Thane
- (ii) M/s Bharat Wire Ropes Ltd., Mumbai
- (iii) M/s Lohar Engineers, Jaipur/Mumbai
- (iv) M/s Surav Industries Jaipur
- (v) M/s Premier Power Products (Calcutta) Pvt. Ltd., Kolkatta
- (vi) M/s. Aisha Transmission, Jaipur

**NOTE:**

The above material & equipments shall be supplied by the contractor from the vendors as specified in the above vendor list . However , for above items, in case the bidder opts for some other vendor than such vendor should fulfill following minimum qualifying criteria :

The manufacturer should have manufactured, tested and supplied at least the quantity marked against each item as listed below in any one year (i.e. continuous period of 12 months) during last 5 years immediately preceding the bid opening and 50% of the quantity should have been in satisfactory operation for a period of 3 years immediately preceding the date of bid opening. No performance is required in the case of Danger plate, Phase plate, Number plate, Circuit plate, Pipe type earthing sets and Counter poise type earthing sets. In order to establish compliance of above criteria , the bidder shall furnish original C.A. certificate along-with the bid for meeting supply criteria. The C.A. certificate should also have membership No. and address of the Chartered Accountant issuing such certificate. For meeting the performance criteria, the bidder shall furnish the original performance certificate or notarized copy of certificate from the user for satisfactory performance along-with bid. The bidder shall also furnish type test reports alongwith the bid as per relevant standard. The type test reports should not be older more than 5 years from the date of bid opening .

<b><u>Name of Item</u></b>	<b><u>Minm. Quantity supplied in one year</u></b>
Galvanized Bolts & Nuts	200 MT
Washers/spring Washers	20 MT
Danger plate/Phase plate/Number plate	6000 Nos.
Pipe type earthing sets	800 Sets .
Counter Poise type earthing sets	500 Sets.

The type tests reports to be submitted as per relevant IS and from any Govt./ Govt. approved/ Govt. accredited lab for the following items will be as under :-

**(A) Galvanised Bolts & Nuts : (Ref IS:12427)**

**For Bolts only :**

- (a) Tensile test
- (b) Hardness test
- (i) Rockwell (HRB) test
- (ii) Vickers (HV) test
- (iii) Brinells (HB) test
- (c) Proofing load test
- (d) Wedge loading test
- (e) Chemical composition test

**For Nuts only :**

- (a) Mechanical properties
- (i) Proofing stress
- (ii) Vickers Hardness test
- (b) Chemical composition test

**For Both Bolts & Nuts :**

- (i) Galvanising test ( Mass & Thickness)
- The galvanised Nuts & Bolts should also bear ISI certification mark.

**(B) Spring washers / Washers( Ref IS:3063)**

- (a) Chemical composition test (IS 4072)
- (b) Mechanical properties test (IS 3063)
- (i) Hardness test
- (ii) Permanent load test
- (iii) Permanent set test
- (iv) Twist test
- (c) Galvanising test

**(C) Step Bolts.(Ref IS:10238)**

- (a) Tensile test
- (b) Hardness test
- (c) Rockwell (HRB) test
- (d) Vickers (HV) test
- (e) Brinells (HB) test
- (f) Proofing load test
- (g) Wedge loading test
- (h) Chemical composition test

The required documents for approval of the alternate bidders will have to be furnished along-with the bid only and the purchaser (RVPN) at its option may approve other vendor(s) subject to fulfilling above requirement otherwise the contractor will have to supply the material/equipment(s) from the vendors listed in Annexure II above.

(iii) For meeting this qualifying criteria/requirement, the work done by only one or some of the units/division of a company/firm shall be counted. However, if some units/division are transferred /taken over/acquired by another company/firm, then this work shall not be counted as experience of the acquiring company/firm. Sub contractor's experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria. If two companies are merged together then the experience of taken over company will be considered towards qualifying requirement of acquiring company. In case of partnership firms if complete firm is merged into other firm then the experience of merged firm may be counted towards experience of acquiring firm. If any partnership is dissolved and one or two partners join the other company and remaining partners make a separate company then the experience of acquired or acquiring company will not be considered.

**1.15.2 FINANCIAL CRITERIA:**

For the purpose of bid, bidders shall meet the following minimum financial criteria:

<b>FINANCIAL CRITERIA</b>	<b>LOTWISE ESTIMATED COST (In Rs. Crores)</b>			
	<b>LOT-I</b>	<b>LOT-II</b>	<b>LOT-III</b>	<b>LOT-IV</b>
Minimum average annual turn-over for the best 3 financial years of last 5 financial Years.	2.50	4.50	3.60	11.50

**NOTE:-**

If the bidder quotes for more than one lot, the bidder shall meet the financial criteria as a sum of total of criteria for individual lots.

**1.15.3 FOR INDIVIDUAL BIDDER QUALIFYING REQUIREMENTS:**

The Individual bidder must fulfill strictly all the Technical and Financial requirements as per Clause No. 1.15.1 to 1.15.2.

**1.15.4 FOR JOINT VENTURE QUALIFYING REQUIREMENTS :**

Joint venture of three firms (maximum) fulfilling the following minimum qualifying requirements can also participate in the bid :

**(A) TECHNICAL CRITERIA**

**Alternate-1**

i) The lead partner of joint venture should have successfully Surveyed, optimized tower locations, and based thereon erected and strung, not less than 80% of the route length(not necessarily on turnkey basis) of tendered transmission line/lots of lines of 110KV class or higher voltage class within last seven years immediately preceding the date of bid opening

The bidders having experience as detailed above for 66KV transmission lines on towers will only be considered for one package of 132KV lines as trial order. The next order will be awarded on successful completion of awarded package.

ii) The other partner should have 50% of manufacturing capacity and should have manufactured / supplied 50% of the complete tower parts as given in clause no. 1.15.1 (ii).

iii) Technical criteria of qualifying requirement for the partners of the joint venture should meet jointly 100% of the technical qualifying criteria as given in clause no. 1.15.1.

### **Alternate-2**

i) The lead partner of joint venture should be a Tower Manufacturer and should have 80% of manufacturing capacity and should have manufactured / supplied 80% of the complete tower parts as given in clause no. 1.15.1 (ii).

ii) The other partner should have successfully Surveyed, optimized tower locations, and based thereon erected and strung, not less than 50% of the route length (not necessarily on turnkey basis) of tendered transmission line/lots of lines of 110KV class or higher voltage class within last five years immediately preceding the date of bid opening

The bidders having experience as detailed above for 66KV transmission lines on towers will only be considered for one package of 132KV lines as trial order. The next order will be awarded on successful completion of awarded package.

iii) Technical criteria of qualifying requirement for the partners of the joint venture should meet jointly 100% of the technical qualifying criteria as given in clause no. 1.15.1.

### **Alternate-3**

i) One of the partner of joint venture should have successfully Surveyed, optimized tower locations, and based thereon erected and strung, not less than 80% of the route length (not necessarily on turnkey basis) of tendered transmission line/lots of lines of 110KV class or higher voltage class within last seven years immediately preceding the date of bid opening

The bidders having experience as detailed above for 66KV transmission lines on towers will only be considered for one package of 132KV lines as trial order. The next order will be awarded on successful completion of awarded package.

ii) The other partner should have 50% of manufacturing capacity and should have manufactured / supplied 50% of the complete tower parts as given in clause no. 1.15.1 (ii).

iii) The third partner can be a financial partner having experience of manufacturing items related to EHV transmission lines or having executed FRP works on turnkey basis.

iv) Any one of these partners can be lead partner.

v) Technical criteria of qualifying requirement for the partners of the joint venture should meet jointly 100% of the technical qualifying criteria as given in clause no. 1.15.1.

## **OTHER EQUIPMENT/MATERIAL**

(i) The joint venture bidder for the line work should own, or have assured access to the supply of Disc Insulator, hardware fittings & accessories for conductor and earth wire, galvanised nuts & bolts, washers/ spring washers, forged items, danger plate/phase plate/number plate /circuit plate and pipe type & Counterpoise type earthing sets from the approved manufacturers (vendors) covered in the list as mentioned in Annexures-I & II (ACSR conductor & GSS earth wire will be provided by RVPN). The bidder shall furnish his own confirmation to the effect that he has assured access for all the requisite material for construction of line commensurate with the completion schedule.

(ii) The conditions given at clause no. 1.15.1(iii) will also apply.

### **(B) FINANCIAL CRITERIA :**

In case of joint venture, the figures for each of the partners of the joint venture shall be added together to determine the bidder's compliance with the minimum qualifying criteria set out in clause no. 1.15.2 above subject to the condition that lead partner of joint venture must meet not less than 40% of the minimum financial criteria given at clause no. 1.15.2 above.

If lead partner alone can meet the financial criteria as stipulated at clause no. 1.15.2, the other partners may not be required to meet any financial criteria.

Failure to comply with this requirement by the joint venture partners as a whole will result in rejection of the joint venture's bid.

### **(C) Bids submitted by a Joint venture of firms as partners shall comply with following requirements in addition to all information listed in sub clause no. 1.15.5 :-**

i) The authorisation of the Lead Partner shall be evidenced by submitting a power of attorney signed by legally authorised signatories of all the partners (Proforma at Annexure-III).

ii) A copy of the agreement entered into by the Joint Venture partners on the requisite stamp paper shall be submitted with the bid in original or duly attested by a Notary Public (Proforma at Annexure-IV).

iii) The bid may be signed by the lead partner of the joint venture and in case of successful bid, the Form of J.V. Agreement shall be signed by all the partners so as to be legally binding on all partners.

iv) The lead partner shall be authorised to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the contract including payment shall be done exclusively with the lead partner.

v) All partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under (iv) above as well as in the Bid Form and in the form of agreement (in case of successful bid).

vi) EMD, security deposit and performance guarantee of a joint venture shall be in the name of lead partner or in the name of the joint venture firm submitting the bid.

**1.15.5 SUPPORTING DOCUMENTS EVIDENCING CAPABILITIES :-**

To be qualified for award, bidder/joint venture shall provide satisfactory evidence to the owner towards their capacity and adequacy of resources to implement the contract effectively. Bids shall include the following information:

a) In order to establish compliance of above financial and technical criteria, the bidder shall furnish original / notarised copy of C.A. certificate. The C.A. certificate should also have membership No. and address of the Chartered Accountant issuing such certificate. Notarised copies of Purchase orders , work orders, commissioning certificates, taking over certificates from the user/owner shall also be acceptable for technical criteria.

b) Authority to seek reference from the bidder's banks.

c) Information regarding any current litigation in which the bidder is involved , the parties concerned and disputed amount.

d) The successful bidder shall be required to submit the plan for carrying out the work.

**1.15.6 OTHER DISQUALIFICATION CRITERIA:**

Even though the bidder meets the above qualifying criteria, they are subject to be disqualified if they have:

i) Made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements and/ or

ii) Record of poor performance such as incompleteness / inordinate delays in completing the earlier contract awarded by RVPN , litigation history etc.