

CHHATTISGARH STATE POWER TRANSMISSION COMPANY LTD. RAIPUR

(A Government of Chhattisgarh Undertaking)

OFFICE : CHIEF ENGINEER (PLANNING & PROJECTS),**Address : 3rd Floor, LD Building, Dangania-Raipur (CG)-492013**Website: www.cspc.co.in

Fax: 0771-2574246,

Tele. 0771-2574238/4239/4240

No. 02-04/NIT/TR-20/04

No 501

Raipur/ dtd.

10 JUL 2020

To,

M/s Unique Structure & Tower Ltd. ,
1-A, Light Industrial Area,
Bhilai - 490026

Fax No. 0788-2285574

E-mail-ustlbhilai@ustl.co.in

Sub:- Tender No.TR-20/04 for Modification of 132 KV Railway Traction line Bilaspur
(From existing Loc. no. 02 to Gantry) on Steel D/C Monopole (60-90° deviation dead
end) due to construction of proposed Fly Over Bridge at Tifra (Bilaspur) on turnkey
basis – **Clarification thereof.**

- Ref:- 1) This office N.I.T. No.02-04/NIT/TR-20/04/ 415 dtd.30.06.2020
2) 1st Corrigendum No.02-04/TL/Corrigendum/482 dtd.08.07.2020.
3) 2nd Corrigendum No.02-04/TL/2nd Corrigendum/492 dtd.09.07.2020.
4) Your letter No.USTL/20-21/HO/ dtd.08.07.2020.

Dear Sirs,

On above subject matter, the point wise clarification sought vide your letter under
reference (Sl.No.4) on technical issues of tender No.TR-20/04 for Modification of 132 KV
Railway Traction line Bilaspur (From existing Loc. no. 02 to Gantry) on Steel D/C Monopole (60-
90° deviation dead end) due to construction of proposed Fly Over Bridge at Tifra (Bilaspur) on
turnkey basis is enclosed herewith in Annexure-A.

Thanking You,

Encl:- As above.

Yours faithfully,

o/c
10/07/2020
CE (Planning & Projects)
CSPTCL: RAIPUR
10/7

Annexure-A

S. N.	Clarification requested by M/s Unique Structures & Towers Ltd. Bhilai	Query /Changes suggested / recommendation by M/s Unique	Clarification of CSPCTL
1	As per SCOPE OF THE SPECIFICATION Point No.3 which states that "This monopole must have been tested as per IS 802 (part-3)-1977 in any reputed NABL accredited test bed in India." But in Clause No.4.23 TYPE TESTS the same is mentioned as "The monopole shall be successfully tested for all the conditions considered in the design of monopole as per the procedure specified in IS-802(part-III)-1977/IEC60652.	IS 802 (part-III)-1977 is "Code of Practice for use of Structural Steel in Overhead Transmission Line Towers Testing". Worldwide Monopole are tested as per "IEC60652-2002" which is for "Loading Test on Overhead Line Structures". In India, other utilities are also following the same practice. Even most of the poles type tested in India as on date have been tested in accordance with "IEC60652-2002".	In response to your recommendation it is confirmed that the Loading Test on Overhead Transmission Line Structure as per "IEC60652-2002" shall also be considered.
2	Clause No.3.13 "PROCUREMENT OF STEEL BY THE CONTRACTOR" states that "The steel used for the fabrication of monopole and its extension etc. shall be confirming to IS 2062 grade E-355-JR" but clause No.4.08 "STRUCTURAL STEEL" states that the following material will be used :- Pole shaft: A572-65 or Equivalent Base plate: A572-50 or Equivalent Ladder & Other: A572-36 or Equivalent	Considering the site requirement & pole type, it is recommended to utilize :- Pole shaft: A572-65 or Equivalent Base plate: A572-50 or Equivalent Ladder & Other: A572-36 or Equivalent	Your recommendation to utilize of following grade material is accepted :- Pole shaft: A572-65 or Equivalent Base plate: A572-50 or Equivalent Ladder & Other: A572-36 or Equivalent
3	Clause No.4.02.01 states that the Pole type should be Heavy angle Pole to be used for line deviation from up to 90° and also as dead end Pole with Single/ Double tension insulator strings whereas in the BOQ Supply of Hot-Dip-Galvanized Tension Monopole (60-90D) dead end type is there.	Kindly clarify whether pole type 0-90 Deg. is to be used or pole type 60-90 Deg. is to be used.	It is confirmed that pole type 60-90 Deg. dead end type is to be used.
4	There is no clarification regarding submission of design reports of the proposed monopole along with bid.	-	As per 2 nd Corrigendum No.492 dttd.09.07.2020 issued by this office states that as per clause 4.23.04 under head "Drawing submission & approval" The successful bidder

Agarwal

			should submit the drawing of offered 132KV D/C monopole alongwith design calculation for approval of CSPTCL. The design calculation of 132KV DC monopole should be as per technical parameters specified for Steel Monopole mentioned in section-IV of the tender document (page 63 to 72). The design calculation of the monopole should be vetted by CPR/ERDA or IIT (like IIT Mumbai/ Delhi/ Chennai/ Kanpur/ Kharagpur /Roorkee). The monopole should be supplied strictly as per the approved drawing/design. As per above tender clause, duly vetted design calculation is to be submitted by successful bidder after order placement.
5	Clause No.4.06	Clause No.4.06 WIND LOAD states that the wind zone to be considered as 4(four) but point No.8 of clause No.4.24.8.03 CLIMATIC CONDITIONS states that the Wind Zone as per IS: 802 (Part-I) -1995 is 2(TWO).	As per tender Clause No.4.06 page No.66 Wind Zone for design of Monopole is considered as 4 (four).

CE (Planning & Projects)
CSPTCL: RAIPUR

22/3/2020
10/7/2020

C.I.N. : U40108CT2003SGC015820

GST No.22AADCC5773E1ZX

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No. 02-04/NIT/TR-20/04

No 5 1 1 - 1

Raipur/ dtd

13 JUL 2020

To,

M/s Valmont Structures Pvt. Ltd. India ,
Unit No.203, Second Floor, Pentagon 4,
Magarpatta City, Hadapsar,
Pune-411013

Fax No.020-30403822
Ph.020-30402830

Sub:- Tender No.TR-20/04 for Modification of 132 KV Railway Traction line Bilaspur (From existing Loc. no. 02 to Gantry) on Steel D/C Monopole (60-90° deviation dead end) due to construction of proposed Fly Over Bridge at Tifra (Bilaspur) on turnkey basis – **Clarification thereof.**

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4) Your letter No.VSPL/WR/CSPTCL/TR-20/04/1 dtd.08.07.2020.

Dear Sirs,

On above subject matter, the poin wise clarification sought vide your letter under reference (Sl.No.4) on technical issues of tender No.TR-20/04 for Modification of 132 KV Railway Traction line Bilaspur (From existing Loc. no. 02 to Gantry) on Steel D/C Monopole (60-90° deviation dead end) due to construction of proposed Fly Over Bridge at Tifra (Bilaspur) on turnkey basis is enclosed herewith in Annexure-A.

Thanking You,

Encl:- As above.

Yours faithfully,

o/c
CE (Planning & Projects)
CSPTCL: RAIPUR
13/7/2020
23/2
13/7/2020

Annexure-A

S. N.	Clarification requested by M/s Volmont Structures Pvt. Ltd. Pune	Query /Changes suggested / recommendation by M/s Volmont	Clarification of CSP TCL
1	As per SCOPE OF THE SPECIFICATION Point No.3 which states that "This monopole must have been tested as per IS 802 (part-3)-1977 in any reputed NABL accredited test bed in India." But in Clause No.4.23 TYPE TESTS the same is mentioned as "The monopole shall be successfully tested for all the conditions considered in the design of monopole as per the procedure specified in IS-802(part-III)-1977/IEC60652.	IS 802 (part-III)-1977 is "Code of Practice for use of Structural Steel in Overhead Transmission Line Towers Testing". Worldwide Monopole are tested as per "IEC60652-2002" which is for "Loading Test on Overhead Line Structures". In India, other utilities are also following the same practice. Even most of the poles type tested in India as on date have been tested in accordance with "IEC60652-2002".	In response to your recommendation it is confirmed that the Loading Test on Overhead Transmission Line Structure as per "IEC60652-2002" shall also be considered.
2	Clause No.3.13 "PROCUREMENT OF STEEL BY THE CONTRACTOR" states that "The steel used for the fabrication of monopole and its extension etc. shall be confirming to IS 2062 grade E-355-JR" but clause No.4.08 "STRUCTURAL STEEL" states that the following material will be used :- Pole shaft: A572-65 or Equivalent Base plate: A572-50 or Equivalent Ladder & Other: A572-36 or Equivalent	Kindly clarify whether which Grade material to be used for manufacturing of monopoles	"STRUCTURAL STEEL" as per tender clause No.4.08 states that the following Grade material is to be used :- Pole shaft : A572-65 or Equivalent Base plate : A572-50 or Equivalent Ladder & Other: A572-36 or Equivalent
3	Clause No.4.02.01 states that the Pole type should be Heavy angle Pole to be used for line deviation from up to 90° and also as dead end Pole with Single/ Double tension insulator strings whereas in the BOQ Supply of Hot-Dip-Galvanized Tension Monopole (60-90D) dead end type is there.	Kindly clarify whether pole type 0-90 Deg. is to be used or pole type 60-90 Deg. is to be used.	It is confirmed that pole type 60-90 Deg. dead end type is to be used.
4	There is no clarification regarding submission of design reports of the proposed monopole along with bid.		As per 2 nd Corrigendum No.492 dtd.09.07.2020 issued by this office states that as per clause 4.23.04 under head "Drawing submission & approval" The successful bidder

			should submit the drawing of offered 132KV D/C monopole alongwith design calculation for approval of CSPTCL. The design calculation of 132KV DC monopole should be as per technical parameters specified for Steel Monopole mentioned in section-IV of the tender document (page 63 to 72). The design calculation of the monopole should be vetted by CPRJ/ERDA or IIT (like IIT Mumbai/ Delhi/ Chennai/ Kanpur/ Kharagpur /Roorkee). The monopole should be supplied strictly as per the approved drawing/design. As per above tender clause, duly vetted design calculation is to be submitted by successful bidder after order placement.
5	Clause No.4.06	Clause No.4.06 WIND LOAD states that the wind zone to be considered as 4(four) but point No.8 of clause No.4.24.8.03 CLIMATIC CONDITIONS states that the Wind Zone as per IS:802 (Part-1) -1995 is 2(TWO).	As per tender Clause No.4.06 page No.66 Wind Zone for design of Monopole is considered as 4 (four).
6	As per clause No.4.23.03 Other Design of Poles : Other design of steel monopoles meeting the loading and testing conditions as stipulated in the technical specification above will also be acceptable.	We are hereby submitting a design report of a similar pole for your scrutiny. We request your confirmation on the same.	Drawing & Design of monopoles submitted by the bidder along with bid against instant tender shall be scrutinized only after opening of bid.
7	Clause 3.2 Technical experience criteria of PQR : The bidder should have constructed at-least 25km of route length of 110KV (or above voltage class) transmission line (cumulative) on turnkey basis. Out of this total 25km (or more) the bidder or their JV partner or both partners collectively must have	As this is a single monopole tender, we would requires CSPTCL to amend the PQR as contractor with experience of only monopole are qualified "The bidder or their JV partner or both partners collectively must have constructed transmission line	Technical experience criteria in PQR shall as per tender.

	constructed transmission line consisting of minimum 10 No. DC Monopole (cumulatively) of 110KV (or above voltage class) transmission line on steel monopole on turnkey basis.	consisting of minimum 10 No. DC Monopole (cumulatively) of 110KV (or above voltage class) transmission line on steel monopole on turnkey basis. And these 10 nos. DC monopoles must be in satisfactory operation for a period of 2 years in India as on originally scheduled date of bid opening.	
8	4.23.01 The monopole (110 KV or above) of offered vendor should be type tested from CPRI /Govt./ NABL accredited Laboratory/ test bed in India. The type test report of dead end DC/MC monopole suitable for line deviation up to 90 deg. & height of lower cross arm from GL of minimum 23 meter conducted on any of the above mentioned test beds performed not earlier than 7 years as on date of issue of NIT with minimum factor of safety as per IS-802-2015 should be submitted along with the bid.	We are submitting the Type test report of 220KV DC 90 deg. pole with BXA of 33.77m for your scrutiny. We request your acceptance on the same.	Type test report of monopole shall confirm / comply the clause No.4.23.01 of tender. Type test report of monopoles submitted by the bidder along with bid against instant tender shall be scrutinized only after opening of bid.

o/c CE (Planning & Projects)
CSPTCL, RAIPUR

[Signature]
13/7/2020

[Signature]
13/7/2020