



RAJASTHAN RAJYA VIDHYUT PRASARAN NIGAM LTD
REGD. OFFICE: VIDYUT BHAWAN, JANPATH, JYOTI NAGAR, JAIPUR
OFFICE OF THE SUPERINTENDING ENGINEER (400 kV DESIGN)
Telephone No. 2740751; Fax No. 2740794; Email: - se_400_kv_design@rvpn.co.in

NO. RVPN/SE(400 kV DESIGN)/XEN (C&P)/TN-307/D.1968

JAIPUR, DT: 13.9.11

M/s.SPML INFRA LIMITED,
Plot No. 65, Sector-32, Gurgaon-122-001
(Haryana)

Fax No.+91-124-
4269139 E Mail

info@spml.co.in

M/s.Sterling and Wilson Ltd.,
C-56/38, Institutional Area, Sector-62,
Noida -201 307 (U.P.)

Fax No.+91-120-
4071030 Email

delhi@sterlingwilson.com

M/s.IVRCL Limited,
The Corenthum Tower-B,
1st Floor, Lobe-4, Plot No.A-41, Sector – 62,
Noida – 201 307 (U.P.)

Fax No. 0120 –
3006201 Email

ivrcldelhi@ivrinfra.com

Sub:- Establishing of 2x 500 MVA, 400/220 kV Substation based on IEC-61850 Automation System at Ramgarh and Augmentation work at Existing 400 kV GSS Akal (Jaisalmer) including Supply of all Equipments/Materials, Erection (Including Civil Works), Testing and Commissioning against Specification No. RVPN/EHV/TN-307.

Ref:- 1.Letter dated 09.09.11 of M/s. SPML, Gurgaon.
2.E-Mail dated 08.09.11 of M/s. Sterling and Wilson Ltd., Mumbai.
3.Letter No. IVRCL / Power / RRVPN / 2011-12 dated 07.09.11 of M/s. IVRCL, Hyderabad.

Dear Sir(s),

With reference to your letter referred above, please find enclosed herewith the “Pre-Bid Clarification No.2”.

This is without prejudice to various terms and conditions of the specification.

Encl: As above

Yours faithfully,

(L.N.Nimawat)
Superintending Engineer
(400kV Design), RVPN, Jaipur.

Copy to :-

1 M/s.Emco Limited,
Plot No.F-5, Road No.28,
Wagle Industrial Estate,
Thane – 400 604.

Fax No.+91 22 2582
0571 E Mail

prashant.mehta@emcoindia.com
mkt@emcoindia.com

2 M/s.Larsen & Toubro Limited,
Mount Poonamallee Road, Manapakkam,
P.B.No.979, Chennai – 600 089.

Fax No. 044-
22493317 Email :

mjs@intecc.com

- | | | | |
|----|--|-------------------------------|--|
| 3 | M/s.ILFS Engineering and Construction Co. Ltd, 4th Floor, Paras Down Town Centre, Golf Course Road, Sector 53, Gurgaon – 122 002. | Fax No.+91-124-4988750 | E mail : pankaj_sharma@ifseengg.com |
| 4 | M/s.A2Z Maintenance & Engineering Services Ltd.,
0-116, First Floor, Shopping Mall, DLF City, Phase-1, Gurgaon–122002. | [Fax No:0124-2566582,4380014, | E Mail : info@a2Zemail.com |
| 5 | M/s.Areva T&D India Ltd.
106, 1st Floor, Sangam Tower, Church Road, Jaipur – 302001.
Tel.No.0141-2387031. | Fax No.0141-2387123 | E Mail binod.joshi@areva-td.com |
| 6 | M/s Bharat Heavy Electrical Limited, Transmission Business Group, Integrated Office Complex, Lodhi road, New Delhi – 110 003. | Fax No.+91-141-2743314. | Email zoheb@bhelindustry.com |
| 7 | M/s. Vijay Electricals Ltd.,
6-3-648/1&2,
off Raj Bhawan Road,
Somajiguda, Hyderabad- 500 082. | Fax No. :- 040-30617891 | E-Mail :- projects@vijai.co.in |
| 8 | M/s.ABB Ltd.,
C-116, "Alaknanda", IInd Floor, Behind Vidhan Sabha, Janpath, Jaipur – 302015 | Fax No.+91 141 2744027 | EMail sandeep.kumar@in.abb.com |
| 9 | M/s.Shyama Power,
421, Udyog Vihar, Phase-IV,
Gurgaon – 122 015, Haryana (India). | Fax No.(0124)-2645120 | Email info@shyamapower.com |
| 10 | M/s.Techno Electric and Engineering Power Plant & Electrical Division,
2F & 3F, Park Plaza, 71, Park Street, Kolkata – 700 016. | Fax No. 033-22171167. | EMail arpan.dutta@techno.co.in |
| 11 | M/s. Jyoti Structures Ltd.,
Valecha Chambers,5/6th Floor, New Link Road, Oshiwara, Andheri (West), Mumbai–400053. | Fax No. 91-22-4091 5014/15 | E Mail contact@jsl.in
Contact@jyotisttructures.com |
| 12 | M/s.Ramky Infrastructure Ltd.,
153, Shanti Nagar, Nr. Shyam Nagar Police Station, King's road, Ajmer Road, Jaipur – 302 019. | Fax No. 0141-2812927 | EMail riljaipur@ramky.com |
| 13 | M/s G.E.T. Power Pvt. Ltd.,
No.153, Developed Plots, Electrical & Electronics Industrial Estate, Perungudi, Chennai-600096. | Fax No. 0091-44-45991000 | E Mail get@getpower.in |
| 14 | M/s.Crompton Greaves Limited,
3rd Floor, Tower A, DLF Cyber Green, Sector 25-A, DLF Phase-III, Gurgaon-122002 | Fax No. 0124-3047777 | Email kapil.verma@cgglobal.com
Chandan.dutt@cgglobal.com |
| 15 | M/s.Saisudhir Infrastructures Limited, 301, G.P.Elite, 8-2-283/4, road No.14, Banjara Hills, Hyderabad – 500 034. | Fax No. 040-2354 3471 | Email info@saisudhirinfra.net |

16	M/s.SEW Infrastructure Ltd., Plot No.184/A, Road No.15, Near Ramalayam Temple, Jubilee Hills, Hyderabad – 500 033.	Fax No. 91-40-2354 2168	Email electrical@sewinfrastructure.com
17	M/s.Bharat Bijlee Milap Niketan 4th Floor 8-A Bahadur Shah Zafer Marg New Delhi	Fax No.011- 233 19413	EMail trafodelhi@bharatbijlee.com
18	M/s KEC International Ltd., 1 st Floor, Building No.9A, DLF Cyber City, Phase III, Gurgaon -122 002 (Haryana) India.	Fax No.+91-124- 4188799	E Mail dalelar@kecrpg.com
19	M/s.Easun Products of India Pvt. Ltd., Temple Tower, 672, Anna Salai, Chennai – 600 035, India.	Fax No.+91-44-2434 6435	E Mail epil@easungroup.com
20	M/s Mavin Switchgears and Control, 20, 'Mavin House', Rauza Baugh, Aurangabad – 431 001.	Fax No.0240- 2380066	EMail shafaatkhan@mavingroup.net
21	M/s.Siemens Ltd., Plot No.6A, Sec.-18, Maruti Industrial Area, HUDA, Gurgaon – 122 015.	Fax No.+91-124-284- 6061	E Mail arvind.suryavanshi@siemens.com

Encls.: -As above.

Superintending Engineer
(400kV Design), RVPN, Jaipur.

Pre Bid Clarification No. 2 (TN-307)

References :-

- A) Letter dated 09.09.11 of M/s. SPML, Gurgaon.**
- B) E-Mail dated 08.09.11 of M/s. Sterling and Wilson Ltd., Mumbai.**
- C) Letter No. IVRCL / Power / RRVPN / 2011-12 dated 07.09.11 of M/s. IVRCL, Hyderabad.**

S.No.	Clause Reference	Existing Clause	M/s. SPML / Sterling and Wilson / IVRCL's Query	RVPN's Reply
1	Vol.-I Schedule B-1 – Schedule of rates & prices	Plant & equipment (including mandatory spares parts) to be supplied, including type test charges for tests to be conducted.	Please confirm whether the bidder to consider type test charges or not. Please refer Schedule- F (Schedule of Type Test Charges Break-up) which states that the same is not applicable.	Please refer clause No. 13.12, Part-2, Vol.II of specification.
2	Vol.I – Schedule B-1 – Schedule of rates & prices – S.No. C-2- 2	Necessary integration of substation automation system ---- -----covered with this item.	Please provide the details / architecture of existing Substation Automation System at 220/ 132 / 33 kV Sub-station Ramgarh. Further, please also inform us the distance between 400 kV main control room building and 220/132/33 kV control room building.	Please read clause No. 2.1.1 (b), Part-1 of Vol.II of specification. Location of control rooms are tentative, exact locations shall be finalized during detailed engineering.
3	Vol. – I Schedule B-1 – Schedule of rates & prices – S.No. C-2- 3	Augmentation of existing sub- station automation system ----- ----- satisfactory operation	Please confirm whether the same is in bidder's scope or not. In case the same is in bidders scope, the details / architecture of the existing SCADA is required.	Please read Clause No.2.2.1 (b) Part-I, Vol.II of specification.

4	Vol.II, Part-11	Technical specification for battery and battery charger.	We have not received the technical specification for 48V, 600AH VRLA battery and charger with the tender document. Please provide the same.	As per Annexure-1, Part-1 of Vol.II of Spec. You have to quote for 48V, 600AH VRLA Battery Set and 50V, SMPS Battery Charger of 100Amp for which necessary specification have been provided at Part-11 , Vol.II of Specification.
5	Vol.II, Civil Works	Cl. 3.1 – Based on preliminary survey rationally.	We have not received soil investigation report with the tender document. Please provide the same.	Soil investigation is in the scope of bidder.
6	Vol.II, Part-24	Drawing No. Drg No. RVPN / EHV / TN-307 - 2A 1&2	Please inform us the distance of control room building from switchyard.	It shall be finalized during detailed engineering.
7	Vol.II – Part-24	Drawing No. Drg No. RVPN / EHV / TN-307 – 3A	Typical cable tray arrangement is depicted in the said drawing. Please confirm whether the same to be replicated for all bays as well.	Yes, the same to be replicated for all bays as well.
8	General points		We have not received the technical specification for cable tray. Please confirm whether bidder to consider GI Ladder type or perforated type cable tray.	Cable Tray shall be perforated type.
9	General points		Please provide the dimension and weight of 500MVA Power Transformer, 125MVA Bus Shunt Reactor and 50MVA Line Shunt Reactor.	It shall be provided during detailed engineering.
10	General points		Please provide soft copy of all drawing in Autocad Format	The design is in the scope of bidder.
11	General points		Please provide the weight of all type of columns & beams	The design /necessary calculations are in the scope of bidder

12	General points		Kindly specify the No. of Circuit Breakers which have pre insertion resistors / closing resistors for long transmission line bays.	<p>Please read item No. 1(a) "Circuit Breaker" of B "Equipments", Annexure-I, Part-1, Vol.II of specification as follows:-</p> <table border="1"> <thead> <tr> <th data-bbox="836 277 927 331">S. No.</th> <th data-bbox="927 277 1126 331">Item Description</th> <th data-bbox="1126 277 1203 331">Unit</th> <th colspan="2" data-bbox="1203 277 1418 331">Qty.</th> </tr> <tr> <td></td> <td></td> <td></td> <th data-bbox="1203 331 1337 360">Ramgarh</th> <th data-bbox="1337 331 1418 360">Akal</th> </tr> </thead> <tbody> <tr> <td data-bbox="836 360 927 414">1</td> <td data-bbox="927 360 1126 414">Circuit Breaker</td> <td data-bbox="1126 360 1203 414"></td> <td data-bbox="1203 360 1337 414"></td> <td data-bbox="1337 360 1418 414"></td> </tr> <tr> <td data-bbox="836 414 927 1021">(a) (i)</td> <td data-bbox="927 414 1126 1021">420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker suitable for single and three phase rapid auto enclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.</td> <td data-bbox="1126 414 1203 1021">Nos.</td> <td data-bbox="1203 414 1337 1021">10</td> <td data-bbox="1337 414 1418 1021">2</td> </tr> <tr> <td data-bbox="836 1021 927 1852">(a) (ii)</td> <td data-bbox="927 1021 1126 1852">420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker for controlling Shunt Reactor (Bus Type) suitable for single and three phase rapid auto enclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries (Modified for Microprocessor based Point of Wave Controller).</td> <td data-bbox="1126 1021 1203 1852">Nos.</td> <td data-bbox="1203 1021 1337 1852">2</td> <td data-bbox="1337 1021 1418 1852">2</td> </tr> <tr> <td data-bbox="836 1852 927 1962">(a) (iii)</td> <td data-bbox="927 1852 1126 1962">Terminal Connectors for above item (a) (i & ii).</td> <td data-bbox="1126 1852 1203 1962">Nos.</td> <td data-bbox="1203 1852 1337 1962">72</td> <td data-bbox="1337 1852 1418 1962">24</td> </tr> <tr> <td data-bbox="836 1962 927 2096">(a) (iv)</td> <td data-bbox="927 1962 1126 2096">Microprocessor based point of wave controller for circuit breaker</td> <td data-bbox="1126 1962 1203 2096">Nos.</td> <td data-bbox="1203 1962 1337 2096">2</td> <td data-bbox="1337 1962 1418 2096">2</td> </tr> </tbody> </table>	S. No.	Item Description	Unit	Qty.					Ramgarh	Akal	1	Circuit Breaker				(a) (i)	420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker suitable for single and three phase rapid auto enclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.	Nos.	10	2	(a) (ii)	420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker for controlling Shunt Reactor (Bus Type) suitable for single and three phase rapid auto enclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries (Modified for Microprocessor based Point of Wave Controller).	Nos.	2	2	(a) (iii)	Terminal Connectors for above item (a) (i & ii).	Nos.	72	24	(a) (iv)	Microprocessor based point of wave controller for circuit breaker	Nos.	2	2
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					suitable for Bus shunt reactor(for above item (a)(ii))			
				(a) (v)	420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker with PIR suitable for single and three phase rapid auto reclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.	Nos.	--	4
				(a) (vi)	Terminal Connectors for above item (a) (v).	Nos.	--	24
Accordingly, quantities of above items shall be modified in the schedule-B1, B2 & B3.								
13	General points		Since Ramgarh & Jodhpur locations are under high seismic zones, dead tank CTs should be preferred over live tank CTs.	Please adhere with the specification.				