

ANNEXURE-I

PRE BID QUERIES

Establishing of 2x50MVA, 132/33kV GIS Substation including of IEC 61850 based automation system at existing 33/11kV S/S premises Old Power House (Jodhpur) and 132kV terminal bays at existing 132kV Substation Banar (Jodhpur) including Supply of All Equipments / Materials, Erection (Including Civil works), Testing and Commissioning against **TN-283**

SL.NO	VOLUME / SECTION	CLAUSE NO.	QUERIES	RVPN's Clarifications/Replies
1	Volume-II-Part-I, Page 22, Annexure-V2-P1-2	S.No. 1(b)	As per referred annexure, drawing no for single line diagram of existing substation Banar with proposed Hybrid GIS bays is mentioned as RVPN/TN-283- 1(b). But in the actual drawing it is mentioned as RVPN/TN-283- 2(a). Please clarify.	In the drawing, it is a typographical error. Pl. correct it as Drg-1 (b)
2	Drg no. RVPN/TN-283/Drg- 1(a) & Schedule-B1		We presume that 250kVA, 33/415V, station transformer mentioned in schedule-B1 & in the referred SLD number are same. Please confirm.	Confirmed
3	Volume-II-Part-I, Page 7 & Drg no. RVPN/TN-283/Drg- 1(a)	2.11-b-i-b	As per the referred clause there is no transformer bay in the proposed 33kV switchyard at old power house s/s . But as per the SLD drg no. RVPN/TN-283/Drg- 1(a), there is one number ST TR bay shown. Please clarify.	Station transformer shall be connected through isolator & HG fuse arrangement and hence not termed as bay
4	Volume-II-Part-III, Section- I - Power transformer, page 5	4.0 - sno. 20	As per the referred clause, the system short circuit level & duration for transformer is mentioned as - for 132kV: 31.5kA, 2 sec & for 33kV: 25kA, 2 sec. But as per volume-II, part-I, clause 2.1.1, page 3, it is mentioned as 31.5kA, 3 sec on both 132kV & 33kV side. Please clarify.	For transformer, parameters be adhered as per specification
5	Drg no. RVPN/TN-283/Drg- 2(a)	SLD of 132kV GSS Banar	Each outgoing line 132kV Hybrid GIS bay module shall consists of two numbers of isolator with single earth switch, 1 set of circuit breaker and 1 set of current transformer. Please confirm	Confirmed
6	Drg no. RVPN/TN-283/Drg- 2(a)	SLD of 132kV GSS Banar	132kV Hybrid GIS bay module of bus coupler shall consists of one number of isolator with single earth switch, 1 set of circuit breaker and 1 set of Current transformer. Please confirm	Confirmed
7	Volume I (Part-VI) - schedule-B1	S-IV-1	In the referred schedule it is mentioned as 12 lengths of cable with suitable Outdoor & Indoor [12+12] end Terminations. Since the 33kV side is AIS substation we presume that there is no requirement of indoor cable termination and only outdoor terminations shall be considered instead of indoor terminations. Please confirm	Confirmed

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8	General	-	Please clarify the requirement of 132kV busbar protection for one number 132kV future bay at the proposed old power house substation.	Pl. adhere to BoQ of item No. 6 of Annexure-V2-P3-S5A-1
9	Volume I (Part-VI) - schedule-B1	S-VAB-5	We presume that one number of 132kV busbar protection relay panel mentioned in referred schedule is for proposed substation at old power house(Jodhpur). Please confirm. Please clarify the requirement of 132kV bus bar protection relay panel for proposed 3 nos of hybrid GIS bays at 132kV substation Banar since the same is not quantified in schedule.	Confirmed for proposed OPH substation. No bus bar protection relay envisaged at existing 132 kV substation, Banar.
10	Volume I (Part-VI) - schedule-B1	S-VAB-6	As per referred schedule there are 5 nos of Control and Protection Panel for 33 kV Feeder (I/C, O/G)/Bus-coupler/ Capacitor Bank [For TWIN FEEDER/BAY] Type-FCRD. But as per the SLD Drg no. RVPN/TN-283/Drg- 1(a) & tech spec, there are 2 nos of incomers, 1 nos of bus coupler & 7 nos of outgoing feeders i.e, there are total 10 nos of bays. So please clarify the nos of bays for which 33kV CRP to be considered.	Pl. see the panel configuration, each Type-FCRD panel is capable of handling control & protection for 2 Nos. 33 kV bays.
11	Volume I (Part-VI) - schedule-B1	S-VAB-6	As per SLD Drg no. RVPN/TN-283/Drg- 1(a) of proposed old power house s/s & tech spec, there is no 33kV capacitor bank feeder. But in the referred schedule it is mentioned as 5 nos of Control and Protection Panel for 33 kV Feeder (I/C, O/G)/Bus-coupler/ Capacitor Bank [For TWIN FEEDER/BAY]. Please clarify requirement of capacitor bank. Also clarify the word TWIN FEEDER/BAY .	Capacitor Bank bay not envisaged in the project.The word twin feeder/bay is clarified at point no.10 above.
12	Drg No. RVPN/EHV/TN-283/DRG-4(1)	Ground Floor Plan	We presume the switch/ control room shown in the drawing is the space to accommodate 132kV CRP & 33kV CRP. Please confirm	Confirmed, however actual installation arrangement to be finalized during detail Engineering after approval of the Nigam
13	General	-	Please provide the details of 132kV cable incomers (2 nos from Banar S/S & 1 nos from Engg College) to 132kV GIS Hall building at Old Power House (Jodhpur) indicating the cable entry point	The same shall be co-ordinated with other contractor executing cable system and shall be finalized during detailed Engineering

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14	Drg no. RVPN/TN-283/Drg- 1(a) & Drg no. RVPN/TN-283/Drg-2(a) & Volume I (Part-VI) - schedule-B1	S-VII-1	As per referred SLD of both old power house s/s & Banar s/s, there is requirement of 6 nos of 132kV surge arrestor(1 phase) at each substation i.e, total 12 nos are required. But as per referred schedule there are only 6 nos. Please clarify.	At proposed OPH sub station, Surge Arrestors are part of GIS bays
15	General	-	Please furnish the 33kV cable size for outgoing 33kV cable feeders at proposed old power house substation inorder to quantify the suitable cable terminations at s/s end	Outgoing 33 kV Cable feeders shall be terminated by Jodhpur Discom.
16	Volume II (Part-III of III) - section-X- Lighting system	Clause 7.2 Indoor lighting	As per the mentioned clause, GIS building shall be illuminated using enclosed type high bay luminaires having 250W MH fixtures and 1X100W GLS downlighter. But in clause 7.5 of Volume II (Part-III of III) section-X- Lighting system and Price schedule-B1 of part-VI Volume-I, the same types of fixtures are not given. Please confirm the type of fixtures to be used for GIS building illumination.	BoQ of price schedule be adhered.
17	Volume II (Part-III of III) - section-X- Lighting system	Clause 5	As per the mentioned clause, from lighting panel to sublighting panel shall be 415V PVC armoured Al. power cables of size 3.5Cx16sq.mm. But as per (Volume II (Part-III of III) - section-XVIII- Power & control cables, clause 3.0), the same is mentioned as 4Cx16 sq.mm PVC Al. Please clarify.	It shall be 4Cx16 Sqmm as per section XVIII
18	Volume-II-Part-I, Page 7	2.11-b-ii-8	As per this clause please clarify how the 132kV cable will be terminated in 132kV GIS Hall with support structure (as per schedule B1, S no S-XIII & S-XV - 1, The 132kV cable is terminated with support). The General layout drawing furnished by you is not showing the 132kV cable termination support. Also we understand from the layout that there is no cable gallery below the 132kV GIS Hall. Please clarify the connection of this cable to GIS Building.	It is as per detailed Engineering of successful contractor.The cable termination support arrangement at GIS bay end shall, if required, is to be designed and provided by successful contractor.
19	Volume I (Part-VI) - schedule-B1	S-XIII & S-XV-8	As per referred schedule, Substation Structures/Supports & Switchyard Erection shall be considered for 6 nos of 33kV feeder cable bays at old power house s/s. But as per SLD Drg no. RVPN/TN-283/Drg 1(a), there are only 5 nos of cable feeder bays. Please clarify.	Pl. adhere to BoQ. Payment shall be at actual utilization on finalized unit price of contract.

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20	Soil Investigation - Banar & Old Power House.		Please furnish the existing soil investigation report/bore log data for switchyard area if available.	The same is to be ascertained by bidder
21	Site survey		Please furnish Contour map & FGL for the proposed Substation.	Sub station area be visited by prospective bidder at their cost for estimation purposes
22	VOL II-PART-I OF III - PROJECT. Pg.No. 5	2.3. Civil works clause 2.3.2. xiii.	Please furnish the details of existing Boundary wall to be repaired/augumented.	The boundary wall is existing towards railway line side. Bidder may visit site at his cost for further details.
23	VOL II-PART-I OF III - PROJECT Pg. No.4	2.3. Civil works . clause 2.3.1	Please furnish the details of dismantling of existing buildings/structures/foundations if any.	Refer reply at S. No.21
24	VOL III-Technical specification of Civil works. Pg. No. 14	clause 7.0	Please furnish the width of the road to be provided.	Pl. refer Drg.-2 (a) wherein width of road is marked.
25	VOL II-PART-II - TECHINICAL SPECIFICATION-Pg. No. 26	25. Support structures clause 25.1.	Please furnish the typical drawings of equipment support structures.	The same are to be designed by successful bidder for approval of Nigam
26	Bid enquiry no-RVPN/EHV/TN-283,Volume -2,Part 3 ,section -12 ,AC system	1-General /1.2/ iV	1)Apart from control room,battery room,communication room we have considered Air -conditioning for SCADA room also as it is designated in the Building floor layout.Any other room apart from above mentioned room is not considered for air-conditioning.Please confirm 2)Ventilation system specification is not provided. Ventilation system is to be considered or excluded? Please confirm 3)If ventilation system is to be considered please furnish the specification.	Confirmed. Pl. refer the clause 19.0 of section-III, 132 kV GIS equipment for specification of ventilation system.
27	Bid enquiry no-RVPN/EHV/TN-283,Volume -2,Part 3 ,section -11 ,AC system		1) Apart from the N2 system for the transformer ,we do not find spec for any other system such as Hydrant system for indoor & outddor of substation .Please confirm Hydrant system is to be consider for indoor & out door substation fire fighting or excluded 2)If Hydrant system needed ,with pump house or extension is to be done with existing pipe line ,if it with existing pipe line we want to know the location of taping point and existing pump capacity 3) Passive fire protection system needed or not please confirm.	Hydrant system is not envisaged. Pl. offer fire protection system as per specification requirements.