

Clarification/Comments sought by bidders for 132/33 kV GIS Sub station at MNIT, Jaipur, TN- 276				Annexure- I
S. No.	Referance	Clause Text	Clarifications sought	RVPN Clarification/Comments
	Civil			
1	Soil Investigation Report and Plot Plan		Please provides the soil investigation report and the contour layout plan of the sub-station.	Fairly levelled land. FGL to be decided during Detailed Engineering, keeping in view the water drainage level with respect to main road etc.by successful bidder and to be approved by Nigam.
2	FGL		Kindly provide the proposed FGL of the Sub-station	To be decided/finalized during detailed Engineering
3	Plot Plan		Provide the plot plan of the Sub-station	Same is given in Drawing No.EHV/RVPN/TN-276/Drg2
4	Types of road		Kindly specify which type of roads to be considered RCC or Bitumen Roads.	Pl. refer schedule B3 item III 8 (Civil Works).Civil work, it is RCC.
5	BOQ		Item no. 13 (unit rate BOQ Civil) No units for Aluminum works are given. Kindly provide the same.	Bidder may add the item
6	Parking Shed and Guard Room		Kindly provide the drawings of parking shed and guard room	It is to be developed & designed by the successful bidder as per the functional requirement, to be approved by Nigam
	33 kV GIS			
7	Cubicles must be made up of stainless steel boxes, completely segregated one from the other.		The HV part is enclosed in housing made up of Aluminium alloy. The offered design is with single phase encapsulated continuous busbars. Kindly confirm	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement.However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards,safety & maintenance requirements,functional performances etc.during bid evaluation.

8	The circuit-breakers must be a vacuum circuit breaker with horizontal pole arrangement.		Siemens VCB is with vertical pole arrangement. Kindly confirm	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation.
9	General- SLD of 132 KV GIS S/s AT MNIT (JAIPUR)		Please confirm whether it is only provision (Space in GIS room) or a complete bays along with Equipments to be quoted by bidder. PI. confirm our understanding	PI. quote as per the BoQ of the specification.
10	Cl. No. 4.1.2 / Section – III (33 KV GIS) / Volume – II (TS) (Page 4 of 18)	Cubicles must be made -up of stainless steel boxes, completely segregated one from the other, containing the power parts of the cubicle. These stainless steel boxes will be molecular sealed; the degree of protection on the external part of the cubicle will be IP4X.	We would like to inform you that we shall be offering IP 65 for Gas compartments & IP 4X for Low Voltage compartments. However since there are operating apertures in Drive mechanism, the operating fascia, we confirm IP 3X for the same. Request you to confirm the same.	Manufacturer specific design variations are acceptable, subject to meeting of functional requirements and compliance to relevant IEC/IS standards.
11	Cl. No. 4.1.8 / Section – III (33 KV GIS) / Volume – II (TS) (Page 4 of 18)	The pressure of SF6 gas inside shall not be more than 1.3 Bar. The switchgear design shall be such that even at 1 Bar (Atmospheric Pressure) the basic insulation levels as specified can be maintained. The current rating of the feeders shall be maintained at this pressure so as no gas refilling is required at site.	We would like to inform you that Atmospheric pressure the basic insulation level as specified can be maintained except impulse, we confirm 140 KVp for lightning impulse at atmospheric pressure of SF6. Request you to confirm the same	Manufacturer specific design variations are acceptable, subject to meeting of functional requirements and compliance to relevant IEC/IS standards.
12	Cl. No. 4.1.12 / Section – III (33 KV GIS) / Volume – II (TS) (Page 5 of 18)	Internal parts of circuit breakers must be accessible for maintenance. The latter must be removable keeping busbars and cables energized, once opened busbar and cable side isolators.	Please note that as the offered 33 KV GIS is a fixed type Gas insulated switchgear circuit breaker so internal parts of circuit breakers shall not be accessible for maintenance keeping bus bar and cables energized. Request you to confirm the same	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation.
13	Cl. No. 4.4.2 / Section – III (33 KV GIS) / Volume – II (TS) (Page 6 of 18)	i). operation of busbar and cable side isolators if the circuit breaker is closed ii) Operation of circuit breaker during bus bar and cable side isolators operation. iii) Closing of the earthing switch when bus bar and cable side isolators are closed and incoming unit, without consent from the upstream switch board.	We would like to inform you that there is no separate cable side isolator required / available in MV-Gas insulated switchgear design. Three position disconnecter switch shall be offered with Isolator ON-OFF (to connect to the Bus) & Earth Switch ON-OFF position (to achieve the feeder cable earthing via circuit breaker). The 3 position disconnecter switch is mechanically & electrically interlocked with the CB for confirming the offload operation of isolator and earthing switch. Request you to confirm the same	Please refer 33kV side SLD which do not require line side Isolator. Other requirements of safety & maintenance shall be as per functional requirements and compliance to relevant IEC/IS standard

14	Cl. No. 4.6 / Section – III (33 KV GIS) / Volume – II (TS) (Page 6 of 18)	Connections for power cables must be plug in type, according to DIN 47637 or relevant IEC. Testing of cable shall be possible without disconnection of Power cables.	Please note that for the offered switchgear, Plug in type / bolted outer cone type cable termination offered. We confirm that testing of cable shall be possible without disconnection of power cables. Request you to confirm the same.	Pl. adhere to specification requirement.
15	4.9 (iv) / Section – III (33 KV GIS) / Volume – II (TS) (Page 15 of 18)	There shall be some pressure sensors which are unaffected by electromagnetic interferences and which much reduce the duration of the arc in switchboard, directly controlling opening of the circuit breakers which supply the fault.	We would like to inform you that our offer does not include any arc limitative sensors to reduce the duration of the arc. Please note that even without these sensors, the offered switchgear is fully internal arc type tested according to IEC IAC AFL. Request you to confirm the same.	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation.
16	Cl. No. 5.1 (iii) / Section – III (33 KV GIS) / Volume – II (TS) (Page 7 of 18)	Internal parts (main and arcing contacts) of circuit breaker must be accessible for maintenance simply removing front cover, with no operations on SF6 compartments. This maintenance operation shall be carried out by skilled personnel only, both on energized or out of service switchboards.	We would like to inform you that this is a fixed type Gas insulated switchgear circuit breaker so internal parts main & arcing contacts of circuit breakers shall not be accessible for maintenance. SF6 work is involved in case of maintenance required on main and arcing contacts located inside the circuit breaker tank. Request you to confirm the same.	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation.
17	Cl. No. 5.1 (xiii) / Section – III (33 KV GIS) / Volume – II (TS) (Page 7 of 18)	The vacuum circuit breaker shall form a completely independent & interchangeable module so that in case of failure, the VCB can be replaced, in least time.	We would like to inform you that this is a fixed type Gas insulated switchgear circuit breaker, so interchangeability is not applicable. Request you to confirm the same.	
18	Cl. No. 5.2 iv) / Section – III (33 KV GIS) / Volume – II (TS) (Page 9 of 18)	In the circuit breaker cubicles the operation of both busbar and cable side isolators must be simultaneous, operated from the front part of the cubicle. This operation must be interlocked with the relevant circuit breaker and earthing switch.	There is no separate cable side isolator available in MV-Gas insulated switchgear design. Three position disconnecter switch shall be offered with Isolator ON-OFF (to connect to the Bus) & Earth Switch ON-OFF position (to achieve the feeder cable earthing via circuit breaker). Request you to confirm the same.	Pl. refer reply at s.no. 13 above.
19	Cl. No. 5.4.1 / Section – III (33 KV GIS) / Volume – II (TS) (Page 9 of 18)	Current Transformer:	Please note that the Current transformers as toroidal-core current transformers, foil insulated mounted outside of the gas compartments on earthed housing components (not subject to dielectric load from the high voltage)	

		<p>i. The current transformers, Inductive type, shall be in accordance to IEC 60185, IEC 60044-3 read with latest revisions and the general requirements as detailed in foregoing paras of specification The current transformers shall be conventional type and shall comply with the ratings indicated in the single line diagram. They shall be wound core type and shall be located inside/outside the gas compartment The secondary wiring of 2.5 sqmm shall be taken out to the LV compartment via bushings.</p>	<p>The VA burden requirement of MICOM series relay is less than 1 VA on CT circuit. It is also very difficult to get a high VA burden in Ring Core CTs as asked for in the specification. We therefore suggest that VA burden of both metering & protection core should be 5 VA. This is more than sufficient to take care of the protection requirement. Suitable burden calculation shall be submitted during detailed engineering. Request you to confirm the same</p>	<p>Pl. refer clause 5.4.1, ii, note of section-III, Vol. II of specification.</p>
		<p>CT Details</p> <p>Incomer Feeder & Bus-Coupler</p> <p>1000-500/1/1/1A</p> <p>Core 1: 5VA, Class 0.2</p> <p>Core 2: 10VA.5P15</p> <p>Core 3: Class X, V_{kp} >=150V, Ret <- 4 Ohms</p> <p>Outgoing Feeders</p> <p>600-300/1/1A</p> <p>Core 1: 5VA, Class 0.2</p> <p>Core 2: 10VA, 5P15</p>		
20	<p>Cl. No. 5.4.2 iv) / Section – III (33 KV GIS) / Volume – II (TS) (Page 10 of 18)</p>	<p>P.T. PARTICULARS</p> <p>a. Ratio 33000/V3 / 110/V3 /11 (W3)</p> <p>b. Burden: 40VA</p> <p>c. Class of Accuracy: 0.2/3 P</p> <p>d. Voltage Factor: 1.2 continuous & 1.9 for 30 seconds.</p> <p>e. 3 Nos. Single Phase P.T. shall be connected in Star formation</p>	<p>We would like to inform you that the offered 33 KV GIS switchgear has single-pole inductive voltage transformers arranged outside of the gas-filled compartments</p> <p>without primary fuse</p> <p>1) With contact-proof enclosure</p> <p>2) Flanged to the switchgear via plug-and-socket connector on the primary side</p> <p>3) Disconnecting device with the positions "Voltage transformer - ON" and "Voltage transformer -earthed" integrated optionally in the switchgear on the high-voltage end</p> <p>4) No removal of switchgear components in case of voltage tests of the switchgear and the cables.</p> <p>For protection and metering are through numerical relays, the burden requirement will very less. We propose 15VA burden & shall substantiate this with suitable calculations during detail engineering. Also due to compact size of switchgear panel and requirement of high accuracy class i.e. 0.2, 40VA burden for VT's is not achievable. Request you to confirm the same.</p>	<p>Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation.</p>

21	Cl. No. 5.4.4 / Section – III (33 KV GIS) / Volume – II (TS) (Page 10 of 18)	The current and voltage transformers shall have cast resin insulation, and be suitable for installation inside the cubicles and be free of partial discharges.	We would like to inform you that the offered 33 KV GIS switchgear has Current transformers shall be toroidal-core current transformers foil insulated mounted outside of the gas compartments on earthed housing components (not subject to dielectric load from the high voltage). Request you to confirm the same.	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation
22	Cl. No. 5.7 ii) / Section – III (33 KV GIS) / Volume – II (TS) (Page 12 of 18)	Protection Relays	We would like to inform you that in the offered relay one number IST rear port with IEC 61850 protocol shall be provided & second rear port is with IEC 60870-5-103 protocol. Request you to confirm the same.	Confirmed.
		It shall be possible to achieve redundant communication, hence preferably two serial communication ports shall be provided.		
23	Cl. No. 5.7 ix) / Section – III (33 KV GIS) / Volume – II (TS) (Page 13 of 18)	The BCU shall have minimum 14 binary inputs, 5 Power Outputs & 5 Signal output for control of various equipments,	We would like to inform you that In the offered relay there are 10 Nos. binary inputs and 14 Nos. outputs which is suitable for control of various equipments. request you to confirm the same	Pl. adhere to specification requirement.
		P139 relay is with 10 digital input and 14 digital output which is suitable for control of various equipments.		
24	Cl. No. 5.8 i) / Section – III (33 KV GIS) / Volume – II (TS) (Page 13 of 18)	For indoor panels painted colour bands shall be used for the mimic bus. The mimic diagram shall be on eye level. Equipments such as circuit breakers, isolators, current transformers, voltage transfontners etc. shall be represented by suitable symbols. The colour shall be Red Shade 537 of IS-5.	Please note that standard mimic shall be provided as follows for feeder panel, mimic for current transformer and voltage transformer is not available in standard design / so not offered. Color shade is white as per the standard AREVA design. Request you to confirm the same	Manufacturer specific design variations are acceptable, subject to meeting of functional requirements and compliance to relevant IEC/IS standards.
25	Cl. No. 6.01 vi, vii) / Section – III (33 KV GIS) / Volume – II (TS) (Page 15 of 18)	Rated filling level for insulation : 130 kPa	We would like to inform you that rated filling pressure pre at 20 °C for the feeder panels is 0.05 MPa. Alarm level 0.03MPa. Request you to confirm the same.	Manufacturer specified minor design variation are acceptable subject to meeting of functional requirement. However, evaluation of specific make/model shall be subject to Type & Acceptance testing as per IEC & relevant standards, safety & maintenance requirements, functional performances etc. during bid evaluation
		Alarm level for insulation : 120 kPa		
26	Cl. No. 6.02 / Section – III (33 KV GIS) / Volume – II (TS) (Page 15 of 18)	3 position switch and switch-disconnector:	We confirm to provide above ratings considering design ambient temperature as 40 deg C. At 50 deg C ambient de-rating is applicable for above rating. Request you to confirm the same.	Pl. refer clause 3.1 of section-III, Part-III, Vol.II, specification ratings to be met at 50 deg. C.
		Rated current:		
		Feeder 1250 A		
		Bus-Coupler 2000 A		
		Transformer I/C 1600 A		

27	Cl. No. 29.11 / Section – GTR / Volume – II (Page 30)	At least 20% spare terminals shall be provided on each panel/ cubicle/ box and these spare terminals shall be uniformly distributed on all terminal rows.	We would like to inform you that spare terminals shall be provided as per spare terminal availability and the space available in the low voltage compartment during detailed engineering. Request you to confirm the same.	Should meet the functional requirement.
28	Volume II (Part-VI) - schedule-B1	Sl no-II, 2	Volume-II, Part-III of III, specific technical requirements, section-II 132kV GIS Equip, clause 4.5 shows the details of main equipments required for cable line(incomin/outgoing) bays for future purpose. But as per schedule of rates and prices Volume I (Part-VI) , schedule-B1, the supply of equipments for 132kV Future feeder bay is not included. Please confirm and clarify the scope of supply for the future bay .	Confirmed.No equipment is to be considered for future bays
29	Volume II (Part-VI) - schedule-B1	Sl no-III, 2	The description in the referred clause specifies that cable termination plugs has to be provided for 6 nos of outgoing feeders, whereas there are 7 nos of outgoing feeders as per SLD. Kindly clarify the actual requirement.	Out of the 07 Nos. of outgoing bays of 33 kV GIS, 01 No. of outgoing bay is feeding the 33/0.415 kV station transformer and the remaining 06 Nos. of bays are outgoing. As such, termination of 01 No. 33 kV outgoing bay connecting to station transformer is also included in the bidder's scope. PI. refer clause S IV, Schedule B1, item-1
30	Volume-II-Part-I, Page 2	1.1.2	This clause says that the proposed substation is to be built at existing 33kV substation at MNIT Jaipur. No where in the specification the drawings of the existing 33kV substation layout is shown . In this view we understand that the existing 33kV substation is to be dismantled & new proposed substation is to be built in that place. Please confirm.	No, the 33 kV sub station shall not be dismantled. Instead the new proposed 132 kV sub station shall be built alongside the existing 33 kV sub station.
31	Volume-II-Part-I, Page 7	2.11-b-i-a	As per this clause we presume that only space provision for the 1 no outgoing/incoming 132kV bay for future to be provided. Please confirm.	Confirmed
32	Drg No. RVPN/EHV/TN-276/DRG-5(1)	Ground Floor Plan	We presume the switch room shown in the drawing is the space to accommodate 33kV GIS switchgear. Please confirm in order to enable us to estimate interconnection cable and terminations, lighting, etc.	Confirmed, the 33 kV GIS switchgear shall be installed in Switch Room as indicated in the said drawing.
33	General	-	Please provide the details of incomers to 132kV GIS building indicating the cable entry point from 220 kVGSS . Also request to provide the overall plot plan .	PI. refer clause 2.11 b ii 8 & the SLD drawing RVPN/EHV/TN-276/Drg-1. PI. refer GA/layout plan Drg. 2-the 132 kV cable entry point shall be near the AHU Room. Exact location shall be provided to the successful bidder during detailed Engineering.
34	Volume II (Part-III of III) - section-V-A- C&R-SAS	Clause 2.0	We presume that the 132 kV C&R panels for future feeder bay are not in the scope of contractor. Please clarify.	Confirmed. However, the remote end C&R panels are to be included which is clearly mentioned in the said clause.
35	Volume-I-Part-VI, Schedule-B1	S-III-1	As per this clause of 33kV GIS, we understand that the 33kV GIS panel shall be provided with integrated control & relay protections. So there is no requirement of separate 33kV Control & relay panels. Please confirm.	Confirmed.

36	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.	Pl. adhere to the specification BoQ. Sub station Control Room & GIS Hall building shall be illuminated with these fixtures. The bidder is required to submit energy efficient lighting system design as per specification or equivalent and to be approved by Nigam.
37	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 the requirement	It shall be 4CX16 sq. mm. which is available in the BoQ also.
38	Volume II (Part-III of III) - section-XVI- LT Switchgear	Annexure-V2-P3-S16-1	As per this drawing of LT panels AC distribution arrangement , 11/0.4kV, 250kVA LT Transformer(for future) is shown. Kindly clarify if supply of this transformer is covered under our scope of supply.Also confirm the location of this transformer in order to enable us to estimate the incoming cable to Main ACDistribution board.	No, Pl. adhere to the quantity specified in the BoQ only.
39	Volume-II-Part-I, Page 3, page 8	2.2.1-iii, 2.11-b-ii-8	As per this clause we have to establish fibre optic communication link between proposed substation & 220kV existing substation at IGN. So we presume that supply & laying of fibre optic cable between these two stations is excluded from EPC contractor scope. Please confirm.	Confirmed
40	Volume-II-Part-I, Page 14	11.0-ii-b	As per this clause please clarify how the 132kV cable will be terminated in 132kV GIS with support structure (as per schedule B1, S no S-XIII & S-XV 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. Please clarify the connection of this cable to GIS.	The cable entry & Indoor termination to 132 kV GIS in the GIS hall shall be designed by the successful bidder. Pl. refer item-1 S-XIII & S-XV of schedule B1 which is clear for intended work requirement.
41	Volume-I-Part-VI, Schedule-B1	S-III-2	As per this clause, cable termination/plug in 33kV GIS shall be considered for 6 nos of outgoing bays only. Since there are total of 7 nos of outgoing bays, we presume that termination for remaining one no of 33kV outgoing bay connecting to Station transformer is also to be included in our scope. Please confirm.	Confirmed
42	Drg No. RVPN/EHV/TN-276/DRG-1	SLD	As per SLD only 6 nos of 132kV surge arrestors are required. But as per schedule B1, S-VII-1, there are 9 nos shown. We presume that the extra 3 nos of arrestors are to be supplied for 220kV IGN station. Please confirm. Also clarify the installation scope of 3 nos of surge arrestors at 220kV IGN station.	Yes, the additional 03 Nos surge arrestors are to be installed at 132 kV outgoing feeder from 220 kV sub station, IGN,Jaipur.Installation of these is in the bidder's scope. Pl. refer clause S-VII, Schedule B3 item-1

43	Volume-I-Part-VI, Schedule-B1	S-VI-1	We understand that 3 nos of 132kV CVT mentioned in the schedule is to be supplied for 220kV IGN station. Please confirm. Also clarify the installation scope of these equipment at 220kV IGN station.	Yes, the 03 Nos. CVT are to be installed at 220 kV sub station, IGN,Jaipur.Installation of these is in the bidder's scope. Pl. refer clause S-VI, Schedule B3 item-1
44	Volume-I-Part-VI, Schedule-B1	S-XIII & S-XV-1	As per this clause we have to estimate the 3 phase Al tubular bus for interconnecting the 132kV LA, CVT & support structure at 220kV IGN station. In this regard we request you to furnish the substation layout of 220kV IGN station.	The same shall be furnished to successful bidder during Detailed Engineering.
45	General	-	We presume that the 132kV Cable termination at 220kV IGN is excluded from EPC contractor scope. Please confirm.	Confirmed.
46	Volume-I-Part-VI, Schedule-B1	S-XIII & S-XV-2	Under the heading <i>Tubular support for Equipment on 132kV side it is mentioned as Isolator. Please clarify the requirement of this item.</i>	Isolator written is a heading for 33 kV Isolators & not related to 132 kV.
47	Volume-I-Part-VI, Schedule-B1	S-IV-2	We presume that 33kV, 1C, 630Sqmm cable quantity shown in the price schedule is for connecting the 33kV GIS with 2 nos of power transformer(50MVA). Please confirm.	Confirmed
48	Volume-II-Part-I, Page 8	2.11-b-ii-10	As per specification there are 7 nos of outgoing 33kV bays in 33kV GIS. As per referred clause, the incoming supply to the 33/0.415kV station transformer is fed from the outgoing 33kV bays of 33kV GIS. In this regard we presume that out of 7 nos of outgoing bays of 33kV GIS, 1 nos of 33kV GIS outgoing bays is feeding 1 nos of 33/0.415kV station transformer & the remaining 6 nos are outgoing.	Pl refer point No. 29 above.
Civil Queries				
49	Table -1 Pg No.45,Vol-II Part III of III	Internal Finish Schedule	Please furnish the finishing details for AHU, Switch Room, Scada and Comm/Automation Panel.	Shall be designed and submitted by successful bidder during Detailed Engineering as per specification and to be approved by Nigam.
50	General		Please furnish the layout of existing 33kV Substation MNIT (Jaipur) Layout.	Not required as it is in separate land not related with proposed scope of work in this project.
51	Schedule -B3, P-VI, Vol-I	Sl.No. III,1	Please furnish the FGL & contour Map of the Proposed Substation Area.	Fairly levelled land. FGL to be decided during Detailed Engineering, keeping in view the water drainage level with respect to main road etc.by successful bidder and to be approved by Nigam.
52	Vol-II Part-I, Page No.4	2.3.2 (i)	Please furnish the geotechnical investigation reports if it is available with you.	
53	GA/Layout Plan of Proposed S/S.		Please clarify as where fence and Boundary wall has to be provided.	Boundary wall exists on two sides i.e.length & width, for other two sides the same is to be built new. Unit rate of fencing to be furnished in schedule B-3, the work to be done as per requirement during Detailed Engineering at actuals.
54	Vol-II Part-I, Page No.4	2.3.2 (xiii)	Please furnish the drawing for Boundary wall.	Pl. refer Drg. No. RVPN/TN-276/Drg-10
55	Vol-II Part-I, Page No.4	2.3.1	Please furnish the details of leftover foundations of existing foundations if any in proposed substation area.	No leftover foundation is existing, however site preparation is in the scope of project as per specification requirement.

HVAC				
56	Vol-II, Part -III, Section -XII Technical Spec for Air Conditioning System	General 1.2	Please inform the control room location in the layout .	Switch Room shown in Drg-2 is the Control Room
57	General	General 1.2	We have considered AC for the following rooms : 1) Switch Room 2)Comm/Automation Panel Room Hall 3)Scada 4) Conference 5)Library considered as per layout. Please confirm whether our assumption is correct or not.	Confirmed.
58	General	Scope 2.2	Specification calls for Hi-Wall Split AC, were as ground floor shows Ahu room. Please confrim the type of the system required	AHU room is to maintain positive air pressure inside the 132 kV GIS hall so that no dust particle may enter the GIS hall. For the switch room AC system has to be provided as confirmed at point No. 57 above.
59	DRG.No.RVPN/EHV/TN- 276/DRG-5[1] DRG.No.RVPN/EHV/TN- 276/DRG-5[2]	-	Presssuried Ventilation system to be considered for GIS hall, please confirm.	Confirmed.
60	DRG.No.RVPN/EHV/TN- 276/DRG-5[1] DRG.No.RVPN/EHV/TN- 276/DRG-5[2] DRG.No.RVPN/EHV/TN- 276/DRG-5[3] DRG.No.RVPN/EHV/TN- 276/DRG-5[4]	-	Ventilation Fans to be provided for toilets .kindly confirm,	Yes
61	DRG.No.RVPN/EHV/TN- 276/DRG-5[1] DRG.No.RVPN/EHV/TN- 276/DRG-5[4]	-	As per drawing we donot find any legend/symbol mentioned for A/C required for battery & office room.But technical spec saya A/C is required.Please confirm.also the rooms to be A/C according to layouts.	Yes, for battery room, air conditioned and false ceiling are also to be considered. For other rooms/portion of Control Room & GIS Hall building, the details shown in referred drawings shall prevail.
62	General	-	Please confirm the height of false ceiling to be consider for heat load calculation (our asssumption is of 2.4m)	It should be considered as 3.3 m. for the heat load calculations.

Commercial Queries				
63	Volume I (Part-II)-Bid Data Sheets	SI No:8 iii) ,ITB 11.4	We request you to provide us 'C' form once in 3 months to avail sales tax benefits afor all the supplies completed in that particular quarter (3 months),instead of providing the same after completion of entire supplies.	It shall be furnished as per the statutory provisions.
64	Volume I (Part-III)-General Conditions of Contract	CI No 9.7	We request you to give us Interest free advance of 10% for supply ,Erection & Civil Works price components , of the contract value	Pl. adhere to specification requirements.
65	Volume I (Part-III)-General Conditions of Contract	CI No 38.0	In reference to this , we presume that " HIGH SEA SALE AGREEMENT " will be effected for imported items and accordingly taxes are to be considered by us in our price offer . Also Kindly Confirm whether Project Merit Certificate will be provided to us to avail any benefits on basic customs duty.	Pl. adhere to specification requirements.
66	Volume I (Part-V)-Erection Conditions of Contract	CI No 14.2 & 14.3	Kindly request you to provide us 415V power supply & water at single point basis in the vicinity of the substation location for purpose of construction works at free of cost.	Necessary help shall be extended for providing construction power and water. However, bidders shall have to apply for these connections with the respective utilities/authorities and shall have to pay as per the prevailing tariff for the consumption.