



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

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CORRIGENDUM - 01 TO NIT NO-181208

Dated 03-09-2026

Subject: Corrigendum-01 to Tender enquiry for Pre-Bid Tie up with the GIS OEM for Supply & Services of 400kV, 220kV & 66kV GIS and Its associated equipment for DTL's 400/220/66kV GIS Tikrikhurd Tender/ project.

Project : DTL's 400/220/66kV GIS Tikrikhurd
Equipment / Item : Supply & Services of 400kV, 220kV & 66kV GIS and Its associated equipment
Enquiry No/Date : 61Q2700123 Dated 02-09-2026
BHEL NIT NO : 181208
Original Tender due date : 09-09-2026

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for issuance of technical corrigendum-01 (enclosed).

Tender due date shall remain same i.e. 09-09-2026.

All other terms and conditions for this tender enquiry shall remain unchanged.

Bidder to ensure submission of offer on or before due date.

Note: Tender ID on CPP Portal is **2026_BHEL_64541_1**.

Thanking you

-----Sd/-----

Gaurav Agarwal
BHEL TBG, NOIDA

Ref. No. Technical Corrigendum No. 01

Project: Pre-Bid Tie up for,
Design, Engineering, Supply, Erection, Testing & Commissioning of 400/220/66kV GIS Tikrikhurd Sub-Station with complete civil works & automation on Turnkey Basis.

Package/ Item: GAS INSULATED SWITCHGEAR WITH ITS ACCESSORIES (400kV, 220kV & 66kV GIS)

Technical Specification No. TB-PBTU-GIS-400/220/66KV-DTL-TIKRIKHURD REV00

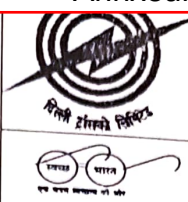
Date: 02.09.2026

Sl. No.	Volume/ Section/ Clause	Volume/ Section/ Clause as Existing	Volume/ Section/ Clause as Amended/ Added in Technical Corrigendum
1	Technical Specification	Section-1	Please refer Tikrikhurd_Technical Corrigendum II_Pre-bid Clarification-1
2	-	-	-

Note:

1. The changes/ revision are marked/ highlighted in yellow, if applicable.
2. Amendment/ addendum/ clarification/ corrigendum issued herein shall form part of Technical Specification.

Bidders to please note that amendment/ addendum/ clarification/ corrigendum issued shall supersede the respective Volume/ Section/ Clause of Technical Specification Document to the extent for the Volume/ Section/ Clause or part thereof the amendment is issued.

Pre-bid Clarification Annexeure-1		592
दिल्ली ट्रांसको लिमिटेड (दिल्ली सरकार का उपक्रम) कार्यालय: उप महाप्रबन्धक (त०) CBP, दिल्ली ट्रांसको लिमिटेड, कमरा नंबर -13, आईपी एस्टेट, आईपी पावर हाउस नई दिल्ली -110002, फोन: 011-23230026 फैक्स 011-23232721 (कॉर्पोरेट संख्या) - U40103DL2001SGC111529 वेबसाइट : www.dtl.gov.in		DELHI TRANSCO LIMITED (A Govt. of NCT of Delhi Undertaking) Office of :DGM (T) CBP, Delhi Transco Limited, Room No.-13, IP Estate ,IP Power House New Delhi-110002, Phone : 011-23230026 Fax No. 011-23232721, CIN - U40103DL2001SGC111529 Website : www.dtl.gov.in

CORRIGENDUM-II

Subject : Design, Engineering, Supply, Erection, Testing & Commissioning of 400/220/66kV GIS Tikrikhurd Sub-Station with complete civil works & automation on Turnkey Basis.

Tender No : T25R220484

Tender ID on e-portal : Tender ID No :2026_DTL_294145_1
<https://govtprocurement.delhi.gov.in>

DTL Tender Reference No : DTL-0060-240626 (www.dtl.gov.in)

The Pre-Bid clarifications are enclosed as Annexure-I

All other terms and conditions remain unchanged.

Thanking you.

Date : 07.08.2026


 (Vipin Kumar)
Dy. General Manager (T)-CBP



Regd. office : Shakti Sadan, Kotla Road, New Delhi – 110 002
 Corporate Identification No. (CIN) -- U40103DL2001SGC111529
 Tel: 23235380 Fax: 23238064
 Website : www.dtl.gov.in

Annexure-I

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
1.	Page no. 200/1218 Clause no. (F) e. Termination CSE for 220kV	Gas insulated terminal connection (cable housing) for connecting reactor with GIS through indoor cable termination etc. to complete reactor bay module.	We would like to inform you that, we are currently considering CSE 1 RUN per phase termination. Kindly confirm the requirement.	As per Section Project, Vol-II of NIT
2.	Page no. 201/1218 Clause no. III. Short circuit withstand current and duration for 66kV	As per customer's Technical specification STC and duration for 66kV not mentioned.	We would like to inform you that we are considering STC and duration as 40kA for 3 sec for 66kV. Kindly confirm STC and duration for 66kV and accept the same	As per NIT
3.	Page no. 202/1218 Clause no. (E) c,d,e. 3 Phase, Single pole 66kV	c. One 2000 A, 3-phase, single pole, group operated isolator without earthing switch, complete with manual and motor driven operating mechanisms. d. One 2000A, 3-phase, single pole, group operated isolator with one 3-phase, single pole, group operated earthing switch, complete with manual and motor driven operating mechanisms. e. One 2000 A, 3-phase, single pole, group operated isolator with one normal and one high speed fault make 3-phase, single pole, group operated earthing switch, complete with manual and motor driven operating mechanisms.	We are providing One 2000 A, 3-phase, three pole, group operated isolator without earthing switch, complete with manual and motor driven operating mechanisms. One 2000A, 3-phase, three pole, group operated isolator with one 3-phase, three pole, group operated earthing switch, complete with manual and motor driven operating mechanisms. One 2000 A, 3-phase, three pole, group operated isolator with one normal and one high speed fault make 3-phase, three pole, group operated earthing switch, complete with manual and motor driven operating mechanisms. Kindly accept the same.	As per NIT
4.	Page no. 286/1218 Clause no. 5.21. VFTO study	The GIS shall be designed, so as to take care of the VFT over voltages generated as a result of pre-strikes and re-strikes during isolator operation. Maximum VFT over voltages peak shall	We would like to inform you that, VFTO study shall be in EPC 's scope of supply. Kindly accept the same.	

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		not be higher than rated lightning impulse withstand voltage (LIWV) of the equipment. Necessary measures shall be under taken by GIS manufacture to restrict maximum VFT over voltages lower than the LIWV. Manufacturer shall submit the study report of VFTO generated for GIS installation		Design and Engineering is in the scope of the bidder.
5.	Page no. 287/1218 Clause no. 5.28. Scissor lift for 220,66kV	In addition to above suitable portable scissor lift shall be provided for access of distant portion of GIS installation.	Please consider a portable ladder instead of scissor lift as it's more than sufficient to reach hard-to-reach places in GIS and it's a cheaper alternative to scissor lift in case of 145 & 220 kV GIS. Kindly accept the same.	As per NIT
6.	Page no. 269/1218 Clause no. 5.40.2 Scope of grounding	The GIS supplier shall define clearly what constitutes the main grounding bus of the GIS. The contractor shall supply the entire material for grounding bus of GIS viz conductor, clamps, joints, operating and safety platforms etc.	We shall provide earthing materials for GIS, GIS Base Frame to GIS module. Supply of Earthing materials on GIS body shall be in Hyosung Scope. GIS to riser shall be EPC's scope. Balance Earthing under the finishes floor level up to the riser shall be done by EPC. The location and no of risers shall be informed by Hyosung.	As per NIT
7.	Page no. 291/1218 Clause no. 5.43.1. Extension on both side	The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays.	Please note that, we would like to inform you that as per customer's SLD and Technical specification there is no future bay scope for 400,220,66kV so that we are considering end cover on the both side of the bays. Kindly confirm and accept the same.	As per NIT, provision should be considered for future bays.
8.	Page no. 295/1218 Clause no. 6.6.3. PIR requirement	Any device provided for voltage grading to damp oscillations or, to prevent re-strike prior to the complete interruption of the circuit or to limit over voltage on closing, shall	Please note that as per this clause we understand that requirement of PIR. However, for 145kV/220kV is not envisaged.	Accepted.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		have a life expectancy comparable of that of the breaker as a whole.	Instead of PIR we are considering CSD for 400kV. Kindly accept the same.	
9.	Page no. 302/1218 Clause no. 8.2. Mechanical Interlocks	Each safety grounding switch shall be electrically interlocked with its associated disconnectors and circuit breaker such that it can only be closed if both the circuit breaker and disconnectors are in open position. Safety grounding switch shall also be mechanically key interlocked with its associated disconnectors.	Please note that, for our GIS design both DS and ES are operated through different mechanism boxes, thus having mechanical interlocking between both is not feasible. Instead, we shall provide hardwired electrical interlocking, which is equally robust, safe and will avoid any misoperations between both. Kindly accept the same.	As per NIT
10.	Page no. 305/1218 Clause no. 10.2. VT type	Voltage transformers shall be of the electromagnetic type with SF6 gas insulation.	We would like to inform you that voltage transformer shall be of inductive type.	As per NIT
11.	Page no. 306/1218 Clause no. 11.2. Insulation coordination for 400,220,66kV	The contractor shall be fully responsible for complete insulation co-ordination of switchyard including GIS. Contractor shall carry out detailed studies and design calculations to evolve the required parameters locations, energy capability etc. of surge arrestors such that adequate protective margin is available between peak impulse, surge and power frequency discharge voltages and BIL of the protected requirement.	We would like to inform you that, Insulation Co-ordination study will be in EPC scope. Kindly accept the same.	As per NIT
12.	Page no. 306/1218 Clause no. 11.2. Insulation coordination data for 400,220,66kV	The locations of surge arrestors shown in single line diagram is indicative only. If the contractor feels that at some more locations the surge arrestors are required to be provided the same should also be deemed included in the	Please note that no data is provided for the Insulation co-ordination study during the tender stage, and without the study, we cannot decide the additional LA quantity requirement or changes in rating. Therefore, if any additional	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		offer.	LA or different rating LA is required during detailed engineering, it shall be supplied by the customer without any cost implication to HYOSUNG. Kindly accept the same.	
13.	Page no. 310/1218 Clause no. 15.2.1. LCC type for 220,66kV	Local Control cubicle shall be either mounted on the GIS with front access or free standing, floor mounting type	We would like to inform you that, we are currently considering Standalone LCC type for 220 and 66kV. Kindly confirm the requirement.	As per NIT and shall be finalized during Detailed Engineering
14.	Page no. 312/1218 Clause no. 17.12. EOT crane capacity	The Capacity of Cranes to be provided for GIS Hall shall confirm following. a) The crane for 400kV GIS hall shall have capacity of minimum 6T safe working load & minimum hook height of crane have shall be 9.0 meters or as per actual requirement whichever is higher. b) The crane for 220kV GIS/66kV/33kV GIS shall have capacity of minimum 5T/3T safe working load & minimum hook height of crane have shall be 8.0/6.0 meters respectively or as per actual requirement whichever is higher.	We would like to inform you that, our OEM supply EOT crane 9 TON for 400kV, 7.5 TON for 220kV and 5 TON for 66kV. We would like to inform you that the requirement of EOT crane is not part of GIS scope of supply. Supply of EOT crane and capacity calculation shall be EPC scope of supply. IS OEM will provide heaviest weight information required. Kindly accept the same.	As per NIT/BOQ and shall be finalized during Detailed Engineering.
15.	Page no. 313/1218 Clause no. 18. Seismic design criteria	The equipment shall be designed for operation in seismic zone for earthquake resistance. The seismic loads are due to the horizontal and vertical acceleration which may be assumed to act non concurrently. Seismic Qualification requirements shall be as per IEC 62271-207 for the design of equipment. The equipments along with its parts shall be strong enough and sufficiently well connected to resist	Seismic test has not been carried out since the test is not included in the mandatory type test generally. However, we can guarantee the seismic performance of our GIS by submitting seismic analysis report, if required.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		total operating stresses resulting from the forces in normal operation but in case of abnormal condition shall also resist with forces superimposed due to earthquakes. The copies of type test reports for similar rated equipment, if tested earlier, should be furnished. If the equipment has not been type tested earlier Test Report/Analysis Report should be furnished during detailed engineering		
16.	Page no. 315/1218 Clause no. 20. Type test	1.Tests to verify the insulation level of the equipment and dielectric test on auxiliary circuits 2.Tests to prove the temperature rise of any part of the equipment and measurement of the resistance of the main circuit 3.Tests to prove the ability of the main and earthing circuits to carry the ratedpeak and rated short time withstand current. 4.Tests to verify the making and breaking capacity of the included switching Devices. 5.Tests to prove the satisfactory operation of the included switching devices. 6.Tests to prove the strength of the enclosures. 7. Gas tightness tests. 8. Tests on partitions. 9. Tests to prove the satisfactory operation at limit temperatures 10. Tests to assess the effects of arcing due to internal fault 11. Verification of the degree of protection of the enclosure 12. Tests to prove performance under thermal cycling and gas	EMC test is applicable for switchgear and controller having electronic devices or components in accordance with IEC 62271-1. Consequently, our GIS do not need to carry out EMC test because our GIS have no electronic devices. We would like to inform you that, as per Cl. 7.3 of IEC 62271-203, RIV tests are applicable only for bushings in gas-insulated switchgear. Thus, the requirement of performing an RIV test for GIS is not envisaged. Reactor current switching test type test we have performed as per IEC 62271-100 only. Kindly accept the same.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		tightness tests on Insulators. 13. Additional tests on auxiliary and control circuits 14. Reactor current switching test For Reactive Current switching capability as per Clause 6.4.1. 15. Test to demonstrate the Power frequency withstand capability of breaker in open condition at lock out pressure 16. Electromagnetic compatibility tests (if applicable) 17 Radio inference voltage tests		
17.	Page no. 319/1218 Clause no. 28. Special tools for 400,220,66kV	As per customer's Technical specifications: TESTING & MAINTENACE EQUIPMENT	Please note that we would like to inform you that, we are considering special tools as per customer's technical specification Kindly confirm and accept the same.	As per NIT
18.	Page no. 320/1218 Clause no. 28.4. Portable PDM for 220,66kV	Portable Partial Discharge(PD) monitoring system (Shall generally applicable for 220kV,66kV& 33 kV)	We would like to inform you that, we are considering as per customer's technical specification Portable PDM only for 220 and 66kV. Kindly confirm and accept the same.	As per BOQ/NIT
19.	Page no. 321/1218 Clause no. 28.5. Online PDM for 400kV	Online Partial Discharge Monitoring System (Applicable 400 kV GIS)	We would like to inform you that, we are considering as per customer's technical specification Online PDM only for 400kV. Kindly confirm and accept the same.	As per BOQ/NIT
20.	Page no. 330/1218 Clause no. 6. Annexure – 2 Operating mechanism for DS,ES	6. Operating mechanism - AC motor operated & manual	Please note that, we have type tested our GIS performance as per IEC with DC-operated motors for CB, DS, ES & HES. Changes in type of Motor such as AC motor or universal motor will require retype testing of	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			complete GIS. Thus, we request you to accept the DC motor-operated mechanism boxes.	
21.	Page no. 383/1218 Clause no. 23.0 Motor type	Motors shall be "Squirrel Cage" three phase induction motors of sufficient size capable of satisfactory operation for the application and duty as required for the driven equipment and shall be subjected to routine tests as per applicable standards. The motors shall be of approved make.	we would like to inform you that, as per our standard GIS module of 420kV, 245 & 145kV we use DC motor for the operation CB, DS, ES and HES to ensure reliability of power supply. Thus the requirement of squirrel cage(induction motor) is not envisaged. Kindly accept the same.	Design, Engineering is in the scope of the bidder and shall be finalized at the time of the Detailed Engineering.
22.	Page no. 383/1218 Clause no. 23.1 IP rating for motor	For motors to be installed indoor i.e. inside a box, the motor enclosure, shall be dust proof equivalent to IP 44 as per IS: 4691.	We would like to inform you that, as per customer's technical specification IP 44 however, IP 42 shall be sufficient for indoor GIS. Kindly accept the same.	As per NIT
23.	Page no. 419/1217 Clause no. B. 1.0 Requirement of DCRM for CB 400kV & 220kV	B. CIRCUIT BREAKER OPERATIONAL ANALYSER WITH DCRM	Please note that, we are not currently considering CB operational analyser with DCRM for 400 and 220kV. Kindly confirm if it requires.	As per NIT
24.	Page no. 298/1218 Clause no. 6.8.2. CSD requirements for 400kV	The CSD shall be provided in 400 kV Circuit breakers for controlling transformers and reactors (i.e for breakers of switchable line reactor and in Main& Tie circuit breakers of Transformers, Transmission lines with non-switchable line reactors and Bus reactors).	We would like to inform that, as per customer's Technical specification Trafo, reactor and Tie are mentioned as with CSD and for line feeder bay we are considering without CSD . Following bays are equipped with CSD 1. Trafo bays – 5 CSD 2. Reactor Bay – 1 CSD 3. Tie Bay – 7 CSD Kindly confirm the requirement of CSD.	As per NIT
25.	Page no. 333,334,335/1218 CT data	As per customer's Technical specifications: Annexure 3 - Table-3A [400kV]	We would like to inform you that we are considering CT data as per customer's technical specification.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Annexure 3 - Table-3B [220kV] Annexure 3 - Table-3C ii) & iii) [66kV]	Kindly confirm and accept the same.	
26.	Page no. 338,339/1218 VT data	As per customer's Technical specifications: Annexure 3 - Table-4A [400kV] Annexure 3 - Table-4B [220kV] Annexure 3 - Table-4C [66kV]	We would like to inform you that we are considering VT data as per customer's technical specification. Kindly confirm and accept the same.	As per NIT
27.	Page no. 333,334,335/1218 CT parameters	As per customer's Technical specifications: Annexure 3 - Table-3A [400kV] Annexure 3 - Table-3B [220kV] Annexure 3 - Table-3C ii) & iii) [66kV]	Please note that, according to the CT data received from the vendor, certain parameters (such as ratio, burden value, metering class, Rct and Im) have been considering CT feasibility and for other parameters have been revised considering as per CT vendor feasibility, we shall confirm to the CT data as provided in the technical specification submitted during tendering. Any change in the CT data is subject to design feasibility check and price implications accordingly. Kindly confirm and accept the same.	As per NIT
28.	Page no. 338,339/1218 VT parameter	As per customer's Technical specifications: Annexure 3 - Table-4A [400kV] Annexure 3 - Table-4B [220kV] Annexure 3 - Table-4C [66kV]	Please note that, according to customer's technical specification we have received VT data from customer but rated burden will be decided on during detail engineering as per customer requirement, we have considering VT feasibility as per feasibility. Any change in the VT data is subject to design feasibility check and price implications accordingly. Kindly confirm and accept the same.	As per NIT
29.	Page no. 214/1218 Spare parts	As per customer's technical specification: Annexure-I MANDATORY SPARES	Please note that, we are considering spare parts for 400, 220 and 66kV as per customer's technical	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		FOR GAS INSULATED SWITCHGEAR (GIS)	specification in Annexure-I Kindly confirm and accept the same.	
30.	Page no. 287/1218 Clause no. 5.28. Scissor lift for 420kV	In addition to above suitable portable scissor lift shall be provided for access of distant portion of GIS installation.	We would like to inform you that, for the 420kV GIS, we are considering a scissor lift. Since the make is not specified in the customer's documents, we are considering a JCB scissor lift as per our standard practice. Kindly confirm and accept the same.	As per NIT
31.	Page no. 287/1218 Clause no. 5.32. v) Pole discordance	v) Pole Discordance.	Please note that Pole discordance not applicable for 66kV.	As per NIT
32.	Page no. 291/1218 Clause no. 5.42. 9) GIB layout	GIS manufacturer as per their design shall preferably use maximum three standard straight horizontal outdoor bus duct lengths for entire GIS installation to optimize the spare requirement.	It is not possible to manufacture in particular three standards only. Hence design shall be as per OEM practice. Kindly accept the same.	As per NIT
33.	Page no. 293/1218 Clause no. 5.45. xxv. Additional data	xxv. Additional CB data to be furnished during detailed engineering :	We have already performed the type test as per IEC 62271-203 & 62271-100, hence not additional type test shall be performed.	As per NIT
34.	Page no. 309/1218 Clause no. 13.8. Cable termination	The provision shall be made for a removable link. The gap created when the link is removed should have sufficient electric strength to withstand the switchgear high voltage site tests.	We understand we have to provide only provision for removable link in cable sealing end. Kindly accept the same.	As per NIT
35.	Page no. 319/1218 Clause no. 28. Quantity for Special tools 400,220,66kV	As per customer's Technical specifications: TESTING & MAINTENACE EQUIPMENT	Please note that, as per customer's technical specification it is not mentioned the quantity for special tools so that we are considering 1 no. for each special tools. Kindly confirm and accept	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			the same.	
36.	Page no. 265/1218 Annexure -IIA Bus VT for 220, 66kV	As per customer's SLD	We would like to inform you that, as per customer's SLD Bus VT is shown as DS/ES, we are currently considering Bus VT with DS/ES/HES. Kindly confirm and accept the same.	As per NIT
37.	GIB length		We would like to inform you that, as per customer's documents there is no GIB length so we kindly request to provide the GIB length.	As per NIT
38.	Overall layout		We would like to request to kindly send the AutoCAD file of the tentative layout as the dimension & location are not clear.	As per NIT
39.	Supply of foundation bolts		We Would like to inform you that, we will only supply GIS along with its support structure. The ground fixing devices like foundation bolts/anchors. Nuts etc. shall be supplied by EPC. We shall provide the quantity, specification of bolts & foundation details during the detailed engineering stage. Kindly accept the same.	As per NIT
40.	Supply of cable from LCC to CSD in CRP panel.		We will only provide the cabling between the GIS and LCC. Since the CSD will be in the CRP panel, the cabling between the LCC and CSD will be handled by EPC. The CSD will have an ethernet port to connect to the BCU, and the BCU will use fiber optic cables to communicate with higher-level systems like SAS. The GIS OEM will supply only the CSD. All other items such as the BCU, cables from LCC to CSD, cables from CSD to BCU, and equipment and cabling from the BCU onward, will	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			be EPC's responsibility. Please confirm your acceptance.	
41.	HF earthing		Please Note that, for High Frequency earthing, Hyosung will only supply the detail design guidance and drawing for the earthing requirement during the detail engineering stage. All the related earthing materials will be supplied by EPC side. Kindly accept the same	As per NIT
42.	Insulation coordination data		Please note that no data is provided for the Insulation co-ordination study during the tender stage, and without the study, we cannot decide the additional LA quantity requirement or changes in rating. Therefore, if any additional LA or different rating LA is required during detailed engineering, it shall be supplied by the customer without any cost implication to HYOSUNG. Kindly accept the same.	As per NIT
43.	Insulation coordination study data for LA finalization		Please note that all the Data regarding insulation coordination, etc, which can affect the LA parameters, shall be provided along with the NOA or within a month from the NOA for GIS LA finalization. Kindly accept the same.	As per NIT
44.	GIB length inside GIS hall		We proposed the SLD, Layout based on inputs received from Client. In case there is any change in client input (Column position, Orientation & Bay Sequence etc.) may affect the GIB length inside the building, during detail	As per NIT. The proposed SLD is tentative and same shall be finalized during Detailed Engineering.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			engineering the additional differential price due to this change shall be paid by client. Along with that, Exact GIB route is not known additional costs may be requested if the number of bending increases in future detailed design. Kindly accept the same.	
45.	Scope of supply for Cable sealing end		We Hyosung will supply the cable end module including enclosure and internal conductor, not termination kit(female and male parts) for the power cable as per IEC 62271-209. The termination kit & dummy plugs will be supplied by EPC side.	As per NIT
46.	1.4(a) Technical experience-contractor EPC	The bidder must have erected and commissioned at least two (2) nos. GIS circuit breaker bays of 400 kV or above voltage class in one (1) GIS substation or Switchyard during last seven (7) years and these Sub-Stations/bays must be in satisfactory operation for at least two (2) years as on the originally scheduled date of bid opening.	The bidder or its Parent/Holding Company must have erected and commissioned at least two (2) nos. GIS circuit breaker bays of 400 kV or above voltage class in one (1) GIS substation or in Switchyard anywhere internationally during last seven (7) years and these Sub-Stations/bays must be in satisfactory operation for at least two (2) years as on the originally scheduled date of bid opening. Note: Where credentials of the Parent/Holding Company are relied upon, the bidder shall submit: (i) documentary proof of shareholding. (ii) completion certificates/performance certificates from the relevant project owner	As per NIT
47.	2.0(b) MAAT-	Minimum Average Annual Turnover (MAAT) requirement for last three years of the bidder should not be less than (Project	Minimum Average Annual Turnover (MAAT) of the bidder or its Parent/Holding Company for last three years should	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		specific value) (Cost Estimate 1.5/Completion period in years)	not be less than (Project specific value) (Cost Estimate x 1.5/Completion period in years) Note: Where the Parent/Holding Company's turnover is relied upon, audited consolidated financial statements of the Parent/Holding Company duly certified by a registered Chartered Accountant shall be submitted. A Parent Company Financial Guarantee shall also be submitted undertaking that the Parent shall ensure financial performance of the bidding entity for the full duration of the contract.	
48.	Section Civil Works - Cl. 1.1.7	it is stated that "the owner shall make fairly leveled land available to the contractor.	Kindly provide the existing site contour/level survey and soil investigation report for estimation and design purposes.	As per NIT, Design and Engineering is in the scope of the bidder and Shall be finalized at the time of the Detailed Engineering.
49.	General	Site Visit Co-ordination Details	Kindly share the contact details of the site representative/official to facilitate the site visit.	Already Intimated
50.	Section - Civil Works 7.0 Roads & Culverts	The double lane cement concrete road with minimum reinforcement shall have 7.0m width, 1.6 m wide 100 mm thick PCC (1:2:4) and earthen shoulder on either side of the road. Other roads shall be with 3.75 m cement concrete and 1.3 m wide 100 mm thick PCC (1:2:4) and earthen shoulder on either side of the road.	The specification mentions a 1.6 m wide, 100 mm thick PCC (1:2:4) on either side of the 7.0 m wide cement concrete road. However, the purpose and location of this 1.6 m wide PCC are not clearly defined. Kindly clarify the arrangement of the 1.6 m wide PCC and provide the layer-wise pavement composition, including the thickness and specifications of each layer to be adopted for the road	As per NIT, Design and Engineering is in the scope of the bidder and Shall be finalized at the time of the Detailed Engineering.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			construction.	
51.	Civil Works	Drain Layout and Crossectional Drawing	The tender documents do not include the General Arrangement Drawing (GAD) or cross-sectional drawings of the drain. Kindly provide the GAD and cross-sectional drawings, along with the relevant dimensions and construction details, to enable accurate estimation and execution.	As per NIT, Design and Engineering is in the scope of the bidder and Shall be finalized at the time of the Detailed Engineering.
52.	Civil Works	Boundary Wall Layout, GAD and Crossectional Drawing	The tender documents do not include the boundary wall drawings. Kindly provide the General Arrangement Drawing (GAD), cross-sectional details, dimensions, and construction specifications of the boundary wall to enable accurate estimation and execution.	Boundary wall specification has been attached as Annexure-A.
53.	Funding for this project	Funding for the project has not been mentioned in the given documents	Kindly inform the funding details of the project.	NA
54.	ITB Cl. 39.4 Mode of Contracting (First Contract / Second Contract) vs. Price Schedules	The successful bidder's award will be split into "First Contract" (ex-works supply) and a "Second Contract" (transportation, storage, insurance, erection, testing & commissioning), linked by a cross-fall-breach clause. The Price Schedules, however, appear to require a single consolidated Ex-Works price (PS-1 Transport & Insurance price (PS-2) and ETC price (PS-3), without indicating how GST invoicing, payment milestones, and the Advance Bank Guarantee/Performance	Kindly clarify (a) whether separate GST invoices are to be raised for the First Contract (Supply) and Second Contract (T&I/ETC) as per their respective Price Schedules. (b) whether Performance Security and Advance Bank Guarantee are to be split contract-wise or furnished as a single instrument covering both contracts.	As per NIT
55.	BDS C. 5.0 /ITB 15.0 - Price Variation applicability vs. Phased	The Completion Schedule has two milestones (30 months for GIS of all	Kindly confirm that price variation for each Power Transformer/Reactor unit	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	Completion Milestones	voltage levels with one Power Transformer of each voltage level, and 36 months for the remaining Power Transformers/scope). The IEEMA Price Variation formula for Power Transformers/Reactors bases escalation on "date of tendering" (fixed) and "date of delivery" (variable, per item). It is not explicitly clarified whether each of the 4 nos. 500MVA and 3 nos. 160MVA transformers will be price-adjusted individually based on its own actual delivery date, irrespective of which completion milestone (30-month or 36-month) it falls under.	will be computed individually with reference to its own actual date of delivery, regardless of whether it is delivered under the 30-month or 36-month completion milestone, and clarify.	
56.	Section-I (Project), Cl. 3.0 Phase-II Item 4 vs. Price Schedule-3, Sr. II.3 (Dismantling BOQ)	Scope of Work states the existing 1x160 MVA (220/66/11kV) transformer shall be SHIFTED and reconnected to the new 66kV GIS with proper cable termination (i.e., retained in service). However, Price Schedule-3, Item 11.3 ("Dismantling of switchyard") separately lists "220/66/11kV, 160 MVA Transformer with accessories and Transportation" Qty 1 as an item to be dismantled and transported to DTL store.	Kindly clarify whether the existing 160 MVA transformer is to be (a) shifted and reused as per Section-1 scope, or (b) dismantled and handed over to DTL store as per the BOQ. If both a shifting and a dismantling scope exist, please confirm whether these pertain to two be different 160 MVA units, and if so, provide the total count and disposition of all existing 160 MVA transformers at site.	NA
57.	Appendix 1 - Terman and Procedures of Payment - Cl. 1.1 (a)	Advance Payment 10% (Ten percent) of the Ex-works price component (inclusive of mandatory spares) of the Contract price shall be paid as *interest bearing advance after signing the Contract Agreement and on submission of	Advance Payment - 10% (Ten percent) of the Ex-works price component (inclusive of mandatory spares) of the Contract price shall be paid as *interest Free advance after signing the Contract Agreement and on submission of	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	(b) Progressive Payment	Sixty percent (60%) of the CIF/Ex-works price component (inclusive of mandatory spares) of each price item (as identified in the price schedule) shipped shall be paid through irrevocable Letter of Credit (L/C) established in favour of the Contractor and on submission of documents specified in CC Clause 21.0.	Seventy percent (70%) of the CIF/Ex-works price component (inclusive of mandatory spares) of each price item (as identified in the price schedule) shipped shall be paid through irrevocable Letter of Credit (L/C) established in favour of the Contractor and on submission of documents specified in CC Clause 21.0.	As per NIT
		Further Twenty percent (20%) of the CIF / Ex Works price (exclusive of mandatory spares) of each item shipped shall be paid after receipt and storage of material at site and on physical verification by the Employer.	Further Fifteen percent (15%) of the CIF / Ex Works price (exclusive of mandatory spares) of each item shipped shall be paid after receipt and storage of material at site and on physical verification by the Employer.	As per NIT
	(c) Final Payment	Balance 10% (Ten percent) of the Ex-works price component of Main Equipment/Materials (excluding Mandatory Spares) shall be paid as per the following:	Balance 5% (Five percent) of the Ex-works price component of Main Equipment/Materials (excluding Mandatory Spares) shall be paid as per the following:	As per NIT
		i) 5% (Five percent) on Successful completion of erection, i) testing and commissioning of individual bays. For other than bay items, this payment shall be released upon respective commissioning/completion.	i) 2.5% (Two point Five percent) on Successful completion of erection, testing and commissioning of individual bays. For other than bay items, this payment shall be released upon respective commissioning/completion.	As per NIT
		ii) 5% (Five percent) on proof of submission of required number of reproducible, O&M Manuals, approved drawings, data sheets, test report, pamphlets and manuals of mandatory spares, maintenance & testing equipment and on successful completion of erection, testing and commissioning of all bays and issuance of Taking	ii) 2.5.% (Two point Five percent) on proof of submission of required number of reproducible, O&M Manuals, approved drawings, data sheets, test report, pamphlets and manuals of mandatory spares, maintenance & testing equipment and on successful completion of erection, testing and commissioning of all bays and issuance of Taking	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Over Certificate.	Over Certificate.	
58.	Section III_ Bid Data Sheets_ Annexure A_ Route 4 Qualifying Requirements of bidders for Establishment of 400 kV GIS Turnkey Package along with 400 kV ICTs Route 4: EPC Contractor	Route 4: EPC Contractor (Eligibility as per 1.4 below): 1.4 In Case, the bidder is not a GIS Manufacturer he shall also be considered provided: (a) The bidder must have erected and commissioned at least two (2) nos. GIS circuit breaker bays* of 400kV or above voltage class in one (1) GIS substation or Switchyard during last seven (7**) years and these Sub-Stations/ bays must be in satisfactory operation# for at least two (2) years as on the originally scheduled date of bid opening. (b) In such cases, GIS equipments should be offered from Indian manufacturers who meet the clause no. 1.1A or 1.2(a) or 1.3(a), while fulfilling all additional requirements as per respective clauses no. 1.1A or 1.2(d) or 1.3(d). (c) The bidder meets qualifying requirements of ICT as per para 1.1B mentioned above. (d) Further, the bidder shall also submit the following along with the bid: i) The bid shall include consent letter (as per format Annexure-D2) from the proposed GIS manufacturer. A legally enforceable undertaking (jointly with GIS manufacturer) to	The bidder who qualify through Route 4, can submit the bid through Joint deed of Undertaking with Indian GIS Manufacturers who meet the Qualifying requirement of clause no. 1.1A or 1.2(a) or 1.3(a), while fulfilling all additional requirements as per respective clauses no. 1.1A or 1.2(d) or 1.3(d). In this regard, we submit that we have not found the JDU format for bidder who qualifies in Route 4. Hence, we request to kindly arrange the format of Joint Deed of Undertaking.	No separate format for the legally enforceable undertaking (to be executed jointly with the GIS manufacturer) is prescribed in the NIT. The bidder may submit the same in their own format, provided it complies with the requirements stipulated in the NIT.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		guarantee quality, timely supply, performance and warranty obligations as specified for the equipment; iii) A confirmation letter from the GIS manufacturer/ GIS Collaborator/ Parent/ Subsidiary/ JVC/ Group/sister concern## company etc. as applicable or EPC Bidder that they shall furnish performance guarantee for an amount of two (2) % of the GIS portion (i.e. Total Price of GIS Portion including Supply, F&I, Installation and applicable tax).		
59.	BDS-Annexure-A Qualifying Requirement of Bidder Route-4 (EPC Contractor)	Route-4 (EPC Contractor) The bidder must have erected and commissioned at least two (2) nos. GIS circuit breaker bays of 400kV or above voltage class in one (1) GIS substation or Switchyard during last seven (7) years and these Sub-Stations/ bays must be in satisfactory operation for at least two (2) years as on the originally scheduled date of bid opening.	i. The Bidder must have supplied and supervised erection & commissioning of at least one (1) nos. Gas Insulated Switchgear (GIS) of 220 kV or above voltage class Substation or Switchyard (with or without supply of power transformer) during the last seven (7) years and this switchyard must be in satisfactory operation for at least two (2) years as on the on the Originally scheduled last date of bid submission.	As per NIT
			ii. The bidder must have supplied, erected and commissioned at least two (02) nos. AIS/GIS circuit breaker bays of 345 kV or above voltage class in one (01) AIS/GIS substation or switchyard during last seven (07) years and these bays must be in satisfactory operation for at least two (2) years as on the originally scheduled last date of bid submission.	As per NIT
			iii. The GIS must be offered from Indian manufacturer, who meets	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			the requirement mentioned at Route-1 or Route-2 or Route-3 above. QR Credential of proposed GIS Manufacturer(s) must be submitted along with the bid.	
			iv. Bidder must submit a Manufacturer Authorization Form (MAF) from offered GIS manufacturer(s) along with the Bid and confirming that a legally enforceable Joint deed of Undertaking shall be submitted at the time of signing of contract.	As per NIT
60.	Annexure-A - Qualifying Requirement Route-4	Route-4 A confirmation letter from the GIS manufacturer/ GIS Collaborator as applicable or EPC Bidder that they shall furnish performance guarantee for an amount of two (2) % of the GIS portion.	Kindly confirm that Performance Guarantee against GIS portion @2% can be submitted in the form of Insurance Surety bond.	As per NIT
61.	Condition of Contract - Clause No. 27.2 (Defect Liability)	The Defect Liability Period shall 60 months for major equipment such as Gas Insulated Switchgear (GIS) bay including Gas insulated bus duct (GIB), Power/Auto Transformers, Reactors, all AIS bay equipment, Mono Pole/Lattice towers and Power cables including its end terminations & straight through joints (of 400KV, 220KV, 66KV, 33KV levels) and 18 months for all other items from the date of Commissioning/Completion of the facilities.	Under this clause almost all the material has been taken except very few has been left. Generally in these type of bids, 60 months Defect Liability Period is applicable for GIS bays, Power Transformers only for rest of the item DLP is applicable for 18 months. Hence it is requested to that 60 months DLP should be applicable for GIS bays & Power Transformers only and for rest of the items for 18 months only.	As per NIT
62.	Project- Clause 12.10	The bidder shall submit all the applicable type test reports of the equipment in line with latest edition of IS/IEC and validity of the type test reports shall be as per latest CEA guidelines. The type test reports shall be submitted along with the bid	Due to size of the Type Test Reports, to upload complete report is not possible. We will submit the detail of type test report to minimise the uploading size. Kindly allow.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
63.	Project-Clause 3.5/12.5	The Bidder shall keep the provision of service bays for increasing the length of 400kV, 220kV, 66kV GIS & control room to meet the future requirement, keeping the width of the building same.	In BOQ, quantity spare GIS bays bay is mentioned as 1(one) for 2 voltage ranges. Kindly confirm whether we have consider additional space in civil buildings for only 1 (one) or more than 1.	As per NIT
64.	Project-Mandatory Spares	Annexure-I List of mandatory spares mentioned	Kindly confirm that mandatory spares in Annexure-I given is total quantity required without any additional requirement.	As per NIT
65.	Project- Appendix-2	Price Adjustment as per IEEMA.	Kindly confirm that base date for price adjustment shall be one month before the date of original bid submission date.	As Per NIT
66.	Condition of Contract-Clause No. 23	Test & Inspection	Kindly confirm that DTL shall bear boarding/lodging cost of DTL inspection officers.	As per NIT
67.	QR requirement Section-III: Bid Data Sheets/ITB Route 4/1.4(d), III	In case this additional performance guarantee is provided by the EPC bidder on behalf of GIS manufacturer, the documentary proof of submission of equivalent Performance Guarantee by the GIS manufacturer to the EPC bidder shall also be submitted to purchaser/owner.	Jakson requests DTL to delete this requirement, i.e., submission of documentary proof of equivalent Performance Guarantee by the GIS manufacturer to the EPC bidder. It may be noted that GIS manufacturers are reluctant to provide such confirmations on a back-to-back basis.	As per NIT
68.	Joint Venture /consortium Bids Section-III: Bid Data Sheets/ITB Clouse 3 (iv)	One of the partner(s) of JV/Consortium must be an Indian GIS manufacturer of 400kV or above voltage level meeting the relevant Technical Experience criteria and the requirements of GIS stipulated under clause 1.1 or 1.2 or 1.3.	Jakson has already submitted a letter to DTL (Ref. No. DTL/GIS/QR/L2 dated 30th June 2026), wherein a request was made for a minor modification in the qualifying requirements. Specifically, it was proposed that a legally enforceable undertaking (jointly with the GIS manufacturer) to guarantee quality, supply, performance, and warranty obligations may be accepted from the bidder, in lieu of the requirement that the GIS manufacturer	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			should be part of a Joint Venture (JV)	
69.	Joint Venture /consortium Bids Section-III: Bid Data Sheets/ITB, III	The payment shall be in the name of joint venture/consortium.	Jakson requests DTL to consider that all payments under the project shall be released by DTL to the Lead Partner	As per NIT
70.	Commercial Section – III: Bid Data Sheets/ITB Sr. 5 / ITB 15.0	For a Completion Period extending beyond 18 months ITB Cl. 15.0 to be followed as under: “Prices as quoted by the bidder shall remain fixed except Power Transformer, Reactor, Power Cable (220 kV and above) and Civil works during the Bidder’s Performance of the Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.”	Jakson hereby requests DTL to extend price adjustment provisions beyond 18 months to cover additional items as applicable	As per NIT
71.	Commercial Section – III: Bid Data Sheets/ITB Sr. No. 6/ ITB 23.1	Bid Amount of Bid Security: In Figures: 50,00,000/-	Jakson understands that submission of bid security in the form of a surety bond is also permissible	As per NIT
72.	QR requirement Section – III: Bid Data Sheets/ITB Route 4/1.4(a)	The bidder must have erected and commissioned at least two (2) nos. GIS circuit breaker bays* of 400 kV or above voltage class in one (1) GIS substation or Switchyard during last seven (7**) years and these Sub-Stations/ bays must be in satisfactory operation# for at least two (2) years as on the originally scheduled date of bid opening.	Jakson request DTL to consider the following (Changes are mentioned in red colour)The bidder must have erected and commissioned at least two (2) nos. GIS/AIS circuit breaker bays* of 400 kV or above voltage class in one (1) GIS/AIS substation or Switchyard during last seven (7**) years and these Sub-Stations/ bays must be in satisfactory operation# for at least two (2) years as on the originally scheduled date of bid opening.	As per NIT
73.	QR requirement	In case this additional performance guarantee is	Jakson requests DTL to delete this requirement,	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	Section – III: Bid Data Sheets/ITB Route 4/1.4(d) iii	provided by the EPC bidder on behalf of GIS manufacturer, the documentary proof of submission of equivalent Performance Guarantee by the GIS manufacturer to the EPC bidder shall also be submitted to purchaser/owner.	i.e., submission of documentary proof of equivalent Performance Guarantee by the GIS manufacturer to the EPC bidder. It may be noted that GIS manufacturers are reluctant to provide such confirmations on a back-to-back basis	
74.	Joint Venture /consortium Bids Section – III: Bid Data Sheets/ITB Clouse 3 (iv)	One of the partner(s) of JV/Consortium must be an Indian GIS manufacturer of 400kV or above voltage level meeting the relevant Technical Experience criteria and the requirements of GIS stipulated under clause 1.1 or 1.2 or 1.3.	Jakson has already submitted a letter to DTL (Ref. No. DTL/GIS/QR/L2 dated 30th June 2026), wherein a request was made for a minor modification in the qualifying requirements. Specifically, it was proposed that a legally enforceable undertaking (jointly with the GIS manufacturer) to guarantee quality, supply, performance, and warranty obligations may be accepted from the bidder, in lieu of the requirement that the GIS manufacturer should be part of a Joint Venture (JV)	As per NIT
75.	Joint Venture /consortium Bids Section – III: Bid Data Sheets/ITB (iii)	The payment shall be in the name of joint venture/ consortium.	Jakson requests DTL to consider that all payments under the project shall be released by DTL to the Lead Partner	As per NIT
76.	APPENDIX 1 Advance Payment for Supply Portion 1.1(a)	10% (Ten percent) of the Ex-works price component (inclusive of mandatory spares) of the Contract price shall be paid as *interest bearing advance .	Jakson hereby requests DTL to consider provision of interest-free advance payment, as adequate cash flow is a critical factor for timely and efficient execution of EPC projects.	As per NIT
77.	APPENDIX 1 Section : Form & procedure (Note) 27 of 87	The Employer will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of delivery of Goods beyond the original	Jakson requests DTL to consider that this clause should be made reciprocal, wherein the bidder is also compensated for any increase in prices	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		delivery date. Therefore, in case of delivery of Goods beyond the original delivery date, the liability of the Employer shall be limited to the lower of the price adjustment amount which may work out either on schedule date or actual date of delivery of Goods.		
78.	QR, Section – III: Bid Data Sheets, 3.0 JOINT VENTURE/CONSORTIUM BIDS:	a) iv One of the partner(s) of JV/Consortium must be an Indian GIS manufacturer of 400kV or above voltage level meeting the relevant Technical Experience criteria and the requirements of GIS stipulated under clause 1.1 or 1.2 or 1.3	Request to modify as: ~~iv One of the partner(s) of JV/Consortium must be an Indian GIS manufacturer of 400kV or above voltage level meeting the relevant Technical Experience criteria and the requirements of GIS stipulated under clause 1.1 or 1.2 or 1.3~~ A legally enforceable undertaking (jointly with GIS manufacturer) to guarantee quality, performance and warranty obligations shall be submitted.	As per NIT
79.	QR, Section – III: Bid Data Sheets, 3.0 JOINT VENTURE/CONSORTIUM BIDS:	The figure of average annual turnover and liquid assets/credit facilities for each of the partners of the JV/Consortium shall be added together to determine the JV's/ Consortium compliance with the minimum qualifying criteria set out in Para 2.0 (b) & (c) above. In case of Joint Venture/consortium, the following conditions shall also apply: ii. All the partners of Joint Venture/consortium shall meet collectively, the technical as well as financial requirements. iii. The Lead Partner shall	Request to modify as: ii. All the partners of Joint Venture/consortium shall meet collectively, the technical as well as financial requirements. The Partners of the Joint Venture shall mutually agree and decide the lead partner. iii. The Lead Partner shall be authorized to incur liabilities and receive instructions including receiving payments for and on behalf of any and all partners of the Joint Venture/consortium. Thus, the lead partner shall be authorized to represent the joint venture/ consortium for the purpose of execution of the Contract.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the Joint Venture/consortium. Thus, the lead partner shall be authorized to represent the joint venture/ consortium for the purpose of execution of the Contract. The payment shall be in the name of joint venture/ consortium. The authorization shall be evidenced by submitting a Power of Attorney signed by legally authorized signatory of all the partners as per bidding documents.	~~The payment shall be in the name of joint venture/ consortium.~~ The authorization shall be evidenced by submitting a Power of Attorney signed by legally authorized signatory of all the partners as per bidding documents.	
80.	QR, Section – III: Bid Data Sheets	One of the partner(s) of JV/ Consortium must be an Indian GIS manufacturer of 400kV or above voltage level meeting the relevant Technical Experience criteria and the requirements of GIS stipulated under clause 1.1 or 1.2 or 1.3.	What qualification is required from the other partner of JV/ Consortium?	As per NIT
81.	QR, Section – III: Bid Data Sheets	All the partners of Joint Venture/ consortium shall meet collectively, the technical as well as financial requirements.	Would it mean that one of JV partners meets the technical requirements and the other partner meets the financial requirements ?	As per NIT
82.	General	SLD and Layout	The copies of the Substation Layout and Single Line Diagram (SLD) provided with the tender are not sufficiently legible for detailed engineering review. We request the DTL to kindly provide clear and readable copies of the Substation Layout and SLD for proper assessment of the project requirements.	Enclosed

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
83.	General	GIS Level Design, Engineering is in the scope of the bidder and shall be finalized at the time of the Detailed Engineering.	Based on our review of the tender drawings and associated documents, we understand that the 66 kV, 220 kV, and 400 kV GIS equipment shall be installed at the Ground Floor level. Kindly confirm whether our understanding is correct.	As per NIT/Detailed Engineering is in the scope of the bidder.
84.	General		Based on our review of the BOQ and the associated tender documents, we understand that PIR (Pre-Insertion Resistor) is not included in the scope of supply for any of the 400 kV GIS bays under this package. Kindly confirm if our understanding is in line with requirement.	As per NIT
85.	BOQ based queries	400kV, 3150A, 1 Phase SF6 GIS Bus duct alongwith support structure - Lot 1	The above BOQ item has been specified on a Lot basis, whereas the corresponding bus duct quantity in meters has not been indicated. Further, the substation layout and drawings furnished with the tender do not provide adequate clarity regarding the exact bus duct routing and the type/location of terminations for certain GIS bays. In the absence of a defined bus duct quantity and complete termination details, bidders may arrive at different assumptions regarding the bus duct length and associated support structures. This could result in variations in the offered scope among bidders and may not ensure a uniform basis for price comparison during bid evaluation. In view of the same, we request you to kindly share the busduct quantity.	Shall be finalized during detailed engineering.
86.	BOQ based queries		The above BOQ item has	

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		245kV, 1600A, 1 Phase SF6 GIS Bus duct alongwith support structure - Lot 1	been specified on a Lot basis, whereas the corresponding bus duct quantity in meters has not been indicated. Further, the substation layout and drawings furnished with the tender do not provide adequate clarity regarding the exact bus duct routing and the type/location of terminations for certain GIS bays. In the absence of a defined bus duct quantity and complete termination details, bidders may arrive at different assumptions regarding the bus duct length and associated support structures. This could result in variations in the offered scope among bidders and may not ensure a uniform basis for price comparison during bid evaluation. In view of the same, we request you to kindly share the busduct quantity.	Design and Engineering is in the scope of the bidder and shall be finalized at the time of the Detailed Engineering.
87.	BOQ based queries	Mandatory Spares Spares for 400 kV GIS - a to f Spares for 220 kV GIS - a to f Spares for 66 kV GIS - a to f	There is a discrepancy between spares mentioned in section project, Annexure- I and tender BOQ. We understand that Section-PROJECT shall prevail over BOQ as per clause no 7. Hence spares from Annexure- I to be offered instead of spares mention in tender BOQ. Kindly confirm.	As per NIT
88.	2 a- BOQ Based	400 KV GIS - LS 1	Kindly clarify the scope requirement of this item to be supplied as a spare	As per NIT
89.	2 a-BOQ Based	220 KV GIS - LS 1	Kindly clarify the scope requirement of this item to be supplied as a spare	As per NIT
90.	3 a-BOQ Based	66kV GIS - LS 1	Kindly clarify the scope requirement of this item to be supplied as a spare	As per NIT
91.	Section -II Instructions To Bidders (ITB),17.2 Page 10 of 26	In addition, the Bidder shall provide in the form of Attachment given in	The tender documents include a defined list of Mandatory Spares. We understand that the bidder's	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Bid Forms, the complete list of recommended spare parts for three (3) years operation of the equipment covered under the Proposal.	scope of supply shall be limited to the mandatory spares listed in the tender and that no additional recommended spares are required to be quoted or supplied beyond those specified. Kindly confirm our understanding	
92.	Section 1 : Project: 400kV GIS Tikrikhurd T25R220484, II. 220 kV SYSTEM Page 6 of 70	(G) Feeder Circuit Breaker Bay modules, each comprising of: f. Three, 3-core, single phase voltage transformers/ PTs with 3-phase, single pole, group operated isolator switch, complete with manual and motor driven operating mechanisms.	We propose to offer Voltage Transformers (VTs) with integrated manual isolators. This design is type-tested and adequately provides isolation of the VT during maintenance activities as well as during High Voltage (HV) testing. The proposed arrangement is a proven and widely adopted solution, which has been accepted by various State Utilities, Central Utilities. Considering the above we request that VTs with integrated manual isolators shall be acceptable for this project. Kindly confirm whether our understanding is correct.	As per NIT
93.	Section 1 : Project: 400kV GIS Tikrikhurd T25R220484 III. 66kV System	Page 8 of 70 (B) (C) (D) (E) b. Three 3-core single phase current transformers. b. Three 4-core single phase current transformers.	For 66kV GIS, our type tested design is 3 phase encapsulated type which has 3 phase encapsulated type CT. We request your acceptance on the same.	As per NIT
94.	Section 1 : Project: 400kV GIS Tikrikhurd T25R220484 III. 66kV System Page 8 of 70	(C) vi. Three, 3-core, single phase voltage transformers/ PTs with 3-phase, single pole, group operated isolator switch, complete with manual and motor driven operating mechanisms.	We propose to offer Voltage Transformers (VTs) with integrated manual isolators. This design is type-tested and adequately provides isolation of the VT during maintenance activities as well as during High Voltage (HV) testing. The proposed arrangement is a proven and widely adopted solution, which	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			has been accepted by various State Utilities, Central Utilities. Considering the above we request that VTs with integrated manual isolators shall be acceptable for this project. Kindly confirm whether our understanding is correct.	
95.	Section 1 : Project: 400kV GIS Tikrikhurd T25R220484 III Extension of 66kV GIS Page 8 of 46	(B) vii. Gas insulated terminal connection for connecting 66kV side of Transformer through XLPE cable with suitable run and size	We understand it is single run cable for 72.5kV GIS Incomer/Transformer Bay. Kindly confirm	As per Section: Vol -II of NIT
96.	Section 1 : Project: 400kV GIS Tikrikhurd T25R220484 4.2 Page 15 of 70	However for design purposes, ambient temperature and altitude shall be considered as 50 degree centigrade	The offered 72.5 kV GIS is type-tested and rated for a continuous current of 3150 A at 40°C ambient temperature. In line with standard industry practice, the current carrying capacity is subject to derating for operation at a maximum ambient temperature of 50°C. Kindly confirm the acceptability of the proposed GIS rating and the corresponding current derating at 50°C ambient temperature.	As per NIT
97.	Layout		Kindly confirm that modifications to the substation layout, including changes in road alignment, GIS hall dimensions, bay arrangement/sequence, equipment locations, bus duct routing, and other associated design parameters, shall be acceptable, with compliance with the specified technical requirements and overall functionality of the substation.	Design and Engineering is in the scope of the bidder and requisite details shall be provided during detailed engineering. Further, if, any material /services of OEM of existing system are required for completion of work, the same shall also be in bidder's scope of work.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
98.	SECTION-II GAS INSULATED SWITCHGEAR 2.2 Page 1	All parts of the bus bar, switchgear and the bus ducts (for both indoor and outdoor applications)	We understand that required GIS bay installation shall be indoor type. Kindly confirm	As per NIT
99.	SECTION-II GAS INSULATED SWITCHGEAR 5.8 Page 4	The material and thickness of the enclosures shall be such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing condition. This shall be validated with Type Test.	Burns through period shall be as per IEC 62271-203 Table 4, Kindly confirm.	As per NIT
100.	SECTION-II GAS INSULATED SWITCHGEAR 5.32 Page 6	Gas Insulating System c) Any other alarm necessary to indicate deterioration of the gas insulating system.	This is not applicable for offered GIS hence not considered.	As per NIT, same shall be finalized during Detailed Engineering.
101.	SECTION-II GAS INSULATED SWITCHGEAR 5.41 Page 6	The calibration and frequency response of PD couplers shall be as per NGC Technical Guidance note TGN (T) 121, issue 1, 1997	Kindly share, NGC Technical Guidance note TGN (T) 121 NGC applicability limits to National Grid UK applications considering the applicability in Indian Power System. We request a generalized applicability in line with IEC / IEEE / CIGRE/ IS standards. Also kindly note that, the above mentioned standards are revised recently based upon technical recommendations.	As per NIT
102.	SECTION-II GAS INSULATED SWITCHGEAR 5.42 Page 9	The horizontal clearance between GIB and GIS building /any other building wall shall be preferably three (3) meters.	Only for GIB Support structure approx. 1 Mtrs distance will be needed from wall to GIB, however minimum required space between building to GIB shall be decided during detailed structure designing	As per NIT and shall be finalized during Detailed Engineering stage.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			for an optimum layout and also to accommodate the future feeder GIB. Request your acceptance on same.	
103.	SECTION-II GAS INSULATED SWITCHGEAR 5.42 Page 10	The minimum outer to outer horizontal clearance between each GIS bus duct shall be 0.5 meter for 400kV, 220 kV, 66 kV & 33kV voltage level.	Phase to Phase distance for a switchgear is fixed for the offered GIS. The GIB shall be extended to outdoor with the same phase to phase distance for an optimum layout. Request your acceptance on same.	As per NIT and shall be finalized during Detailed Engineering stage.
104.	SECTION-II GAS INSULATED SWITCHGEAR 5.40.3 Page 8	The enclosure of the GIS may be grounded at several points so that there shall be grounded cage around all the live parts. A minimum of two nos. of grounding connections should be provided for each of circuit breaker, cable terminals, surge arrestors, earth switches and at each end of the bus bars. The grounding continuity between each enclosure shall be effectively interconnected externally with Copper /Aluminum bonds of suitable size to bridge the flanges.	For the offered GIS design, the proper bonding is ensured by direct metal to metal flange connections forming a continuous earthed unit (Dead tank design).Hence only at 2 nos. locations provision for grounding provided for one bay unit. Kindly confirm	As per NIT
105.	SECTION-II GAS INSULATED SWITCHGEAR 5.43.3 Page 9	The Interface module shall be designed to provide Isolating link with access hole on enclosure. The Isolating link shall be provided in such a way so that HV test can be performed on either side of the interface module separately, keeping other side of GIS remained isolated. Interface Module drawing with necessary detail shall be submitted for approval.	We understand that the Interface module and Isolating Link shall be required for future extension and same shall be considered in the scope of GIS OEM who will perform future extension. Kindly confirm.	As per NIT and shall be finalized during Detailed Engineering stage.
106.	SECTION-II GAS INSULATED SWITCHGEAR 6.6.5 Page 13	The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lockout pressure continuously (i.e. 2 p.u. power frequency	The Offered GIS is such that the breaker shall be able to withstand dielectric stresses in line with IEC 62271-203 imposed on it in open condition i.e. 2 pu for	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		voltage across the breaker continuously)	an duration of 15 min. Request your acceptance	
107.	SECTION-II GAS INSULATED SWITCHGEAR 6.10.2 Page 21	iii. Routine tests on circuit breakers with controlled switching device as per IEC/TR 62271-302.	Routine test on breaker shall be performed without CSD, Since the CSD is installed at site, in LCC panel.	As per NIT
108.	SECTION-II GAS INSULATED SWITCHGEAR 7.2.10 Page 19	Each disconnecter shall be supplied with auxiliary switch having additional 8 NO (Normally Open) and 8 NC (Normally Closed) contacts for future use over and above those required for switchgear interlocking and automation purposes. These spare NO and NC contacts shall be wired up to the local control cabinet.	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 8 NO (Normally open) and 8 NC (normally closed) contacts shall be provided to customer through contact multiplication relay at LCC.	As per NIT
109.	SECTION-II GAS INSULATED SWITCHGEAR 8.6 Page 21	Each ground switch shall be fitted with auxiliary switches having 6NO (Normally Open) and 6NC (Normally Closed) contacts for use by others over and above those required for local interlocking and position indication purposes.	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 6 NO (Normally open) and 6 NC (normally closed) contacts shall be provided to customer through contact multiplication relays at LCC.	As per NIT
110.	SECTION-II GAS INSULATED SWITCHGEAR 9.9 Page 22	Each high speed ground switch shall be fitted with auxiliary switches having 6NO (Normally Open) and 6 NC (Normally Closed) contacts for use by others, over and above these required for local interlocking and position indication.	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 6 NO (Normally open) and 6 NC (normally closed) contacts shall be provided to customer through contact multiplication relays at LCC.	As per NIT
111.	General	Scope of work/termination at line side	We understand that the line-side stringing hardware and conductor are not included in the present scope. Kindly confirm.	As per NIT
112.	General	220kV & 66kV GIS LCC configuration.	We understand that for the 220 kV and 66 kV GIS, LCC mounted on GIS	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			configuration is accepted. Kindly confirm.	
113.	General	Cable celler for 66 kV GIS building	We understand that cable celler is required 66 kV GIS building only. Pls confirm.	Design and engineering is in the scope of bidder and shall be finalized during Detailed Engineering stage
114.	General	Dimensions in the Layout as per bid document	We understand that the dimensions marked in the tender layout represent the required inner-to-inner clear space, with the columns positioned on the outer side. Kindly confirm.	The proposed layout is tentative. However, clearance required shall be maintained by the bidder.
115.	General	Future scope	We understand that future 220 & 400 kV Trafo foundation, trench, CRP and its LA are not in present scope.	As per BOQ/NIT
116.	General	Future scope	We understand that future 220 kV Shunt Reactor foundation, trench, CRP and its LA not in present scope.	As per BOQ/NIT
117.	General	Tender SLD & Layout	1.We understand that, 66kV cable connection side LA is not required. 2. If required confirm insulation level. Pls confirm.	As per NIT and shall be finalized during detailed Design & Engineering.
118.	General	Hook height of 220kV GIS Bldg.	Pls confirm the required maximum hook height for both 220 & 66 kV Building.	As per NIT and shall be finalized during detailed Design & Engineering.
119.	General NIFPS for Transformers	NIFPS for Transformers	We assume that a one NIFPS tank can be used for two transformers (both voltage level). Kindly confirm.	As per NIT and shall be finalized during detailed Design & Engineering.
120.	General	Optimization of Bldg. size	We understand that the building size specified in the tender drawings must be strictly adhered to, and there is no scope for optimization. Kindly confirm.	As per NIT. Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
121.	General	NIFPS for Transformers	We are assuming that, any kind of illumination work is not required on peripheral wall and future scope. Kindly confirm.	As per NIT
122.	General	Illumination on peripheral	We are assuming that, for	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		wall	building illumination work PVC conduit is accepted. Kindly confirm.	
123.	General	Illumination on peripheral wall	During the site visit, we observed a 400 kV tower. We understand that before execution, DTL will dismantle the tower and demolish its foundation. Kindly confirm.	DTL will dismantle the 400kV tower only, however demolishing of its foundation and other allied works are in the scope of bidder.
124.	General	Cable Cellar requirement	We understand that no celler required in 220 & 400 kV GIS building. Pls confirm.	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
125.	General	Height of Rooms in GIS Bldgs.	Kindly confirm the GIS room, GIS CRP room and store height should be equal or unequal.	As Per NIT. Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
126.	General	DSLIP Calculation	For the Building DSLIP IEC 62305-2 and for outdoor rezvik method is accepted. Pls confirm.	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
127.	General	66kV Buried Cable	We understand that the 66 kV cable from transformer to GIS building will be buried. Pls confirm.	As per tentative layout 66kV cable trench envisaged in the scheme, however same shall be finalized during Detailed Engineering
128.	General	66kV H-pole	Kindly provide the standard drawing for the 66kV H-pole for our understanding of the design philosophy. Additionally, please confirm if the H-pole is only required for cable holding arrangements	The H pole arrangement has already been indicated in the tentative layout however the same shall be finalized during Detailed Engineering.
129.	General	Gantry for the illumination	We understand that Gantry we can utilize for the illumination. Pls confirm.	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
130.	General	Rail cum Road	We understand that Rail cum road is required in front of transformer only (400&220). Kindly	As per Tentative Layout provided in the NIT's Annexure-IIA & IIB

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			confirm	
131.	General	220 kV outgoing buried cable	We understand that the 220 kV outgoing buried cable and laying its trench not in present scope.	As per Tentative Layout provided in the NIT's Annexure-IIA & IIB
132.	General	RWH in layout.	What is RWH in layout.	RWH is Rain Water Harvesting.
133.	General	Layout and clearance	Kindly confirm the clearance required between the GIB duct and the road for all voltage levels	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
134.	General	160MVA Transformer to 66 kV GIS - cable type and size.	From 160MVA Transformer to 66 kV GIS, Pls confirm the cable type and size.	As per NIT
135.	SECTION-XXIII	Connection with 66kV XLPE cables. from 66 kV GIS to H Pole.	66kV XLPE cables. from 66 kV GIS to H Pole, Pls confirm the our understanding and size, cable type(Cu or Al).	As per TS Available in the NIT
136.	Clause D, Page no.- 179	220kV XLPE Cable type	Please confirm the type of the Gas insulated terminal connection (cable housing) for connecting double run 1200 sq.mm 220kV XLPE cable (from ICT) directly indoor type GIS cable termination with structure to complete transformer incomer bay module. — Pls confirm, whether it should be copper or aluminum.	As per TS Available in the NIT
137.	Clause D, Page no.- 179	220kV XLPE buried Cable connection	Please confirm the type of the Gas insulated terminal connection (cable housing) for connecting double run 1200 sq.mm 220kV XLPE cable (from ICT) directly indoor type GIS cable termination with structure to complete transformer incomer bay module. — this connection would be buried type. Pls confirm.	As per TS Available in the NIT
138.	Clause F, Page no.- 183	66kV XLPE Cable type	The scope of work also covers Power Cable with termination kit on 66 kV side for connecting 03 No. transformer to 66KV GIS (Suitable size & Run) and connecting outgoing	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			feeders (Suitable size & Run) to H pole arrangement, Steel structure for H-Pole arrangement for termination of 66 KV feeders and petty items for completion of job. Steel structure for 66kV H pole and other support structures. BPI along with accessories etc. Pls confirm the size of cable and type CU/AL.	
139.	SECTION IX PETTY ITEMS Page no- 1020 clause no-5	Copper rod (minimum 3 meters in length) for the earthing arrangement of joint bays.	Please confirm the sq mm size of the copper rod (minimum 3 meters in length) to be used for the earthing arrangement of joint bays, along with clarification on where this rod will be applicable.	As per TS Available in the NIT
140.	SECTION-XX POWER TRANSFORMER Page no- 853 clause no- 15	66kV H pole	Steel structure for 66kV H pole and other support structures. BPI along with accessories 1. Kindly provide the standard drawing for the 66kV H-pole for our understanding of the design philosophy. Additionally, please confirm if the H-pole is only required for cable holding arrangements	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering.
141.	Page no-192, Clause no12.9	Phase to earth clearance is required b/w GIS wall and GIB SF6 live terminal	Vendor has to ensure minimum clearance in and around GIS hall to ensure proper safety, maintenance and movement for equipments and personnel. We understand that the phase to earth clearance is required b/w GIS wall and GIB SF6 live terminal. Pls confirm	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
142.	Page no-191 clause no 12.6	Future extension link for GIS	As per the clause future extension link is required only one side of GIS. Kindly confirm	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering as per relevant standard.
143.	Clause no- 13.4 (i) Page no-529	Lighting-cum-lightning Mast	Lighting-cum-lightning Mast shall be 35m in height1. LCLM height is	Design and Engineering is in the scope of bidder and

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			fixed or considered as per the DSLP Calculation. Pls confirm	shall be finalized during Detailed Engineering as per relevant standard.
144.	SECTION: 1 PROJECT 3.5 Specific Exclusions	Provision for solar lighting	Scope of solar panel. 1. We understand that there is no provision for solar lighting or any solar connectivity to be established with the ACDB or other panels. Kindly confirm.	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering as per relevant standard.
145.	TERTIARY WINDING (TRANSFORMER) Page no.- 191 Clause no-11	160 MVA trfo Aux. arrangement	We understand that 160 MVA trfo Aux. arrangement will be required for only one Transformer. Kindly confirm.	As per NIT
146.	5.40.8 Page No-269	Building lighting protection	We understand that 50x6 GIS will be applicable for building lighting protection. Pls confirm.	As per NIT
147.	Page No-186	Crane for both 66kV & 400 GIS store-room .	XXXV. EOT Crane for 400kV, 220kV, 66kV GIS Room and GIS storeroom. 1. We understand that Crane required for both 66kV & 400 GIS store room .	As per Clause 17 of TS of 400_220_66_33kV Gas insulated S/stn
148.	Annexure-IID of Tender specification	Approved Sub-Vendor List of DTL	Approved Sub-Vendor List of DTL does not have the complete equipment list . 400kV & 220kV AIS equipments, Trafo & Reactors are with single/very less manufacturer's name. Kindly allow for proposed list or provide the list with sufficient makes.	Please refer Clause No 4,Section -V: SPECIAL CONDITIONS OF CONTRACT (SCC) of Vol. I of NIT.
149.	General	Project delivery schedule	Power Transformers/Reactors delivery and installation within the scheduled completion period of 24 months is not possible. Power Transformers/Reactors manufacturers are not responding to the enquiries once it is proposed the project completion period is 24 months. We are requesting for revision of the completion period with	Completion Period as mentioned in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			36 months. Kindly confirm.	
150.	BOQ_400-220-66kV GIS_Tikrikhurd	400kV, 3150A, 1 Phase SF6 GIS Bus duct along with support structure	Since layout doesn't clearly specify the busduct route, We request to share the detailed layout, to understand busduct route. Accordingly, we shall specify the Busduct quantity & unit rate for the Busduct. Any change in the busduct route during execution shall be on unit rate basis.	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
151.	BOQ_400-220-66kV GIS_Tikrikhurd	500MVA Transformer I/C Bay Module - gas insulated terminal connection for connecting ICT with GIS through double run cable directly indoor type GIS cable termination.,	We understand double cable run per phase to be provided only for the 500MVA Transformer I/C Bay Module of 220 KV. 145 KV GIS Bays(66kV) with cable type termination shall be provided with single cable run per phase.	As per Section Project, Vol-II of NIT
152.	BOQ_400-220-66kV GIS_Tikrikhurd	Feeder Bay Module - disconnector switch for PT,	There is discrepancy in the requirement of VT for all voltage class as per SLD , BOQ & Other Doc. We understand to follow the BOQ, for supply of VT. For bays VT without any isolating link shall be provided. VT in the bays are always connected with line without any isolating link. Also, dielectric test can be performed with VT interconnected. So, we propose VT without disconnector for bays & feeders. However , JSW require isolation, we shall provide VT with manual isolating link. Kind confirmation is required.	As per NIT
153.	BOQ_400-220-66kV GIS_Tikrikhurd	Bus Bars: 72.5kV, 3000A, 3-phase	As per Specification & BOQ, there is discrepancy in current rating of busbar. Since bus coupler is rated for 2500 A, We understand 2500 A shall be the current rating for busbar. 72.5 KV,2500 A, 31.5	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			KA/3 Sec @40 Deg C. Please confirm.	
154.	BOQ_400-220-66kV GIS_Tikrikhurd	One high speed fault make grounding switch,	Since transformer bays are with dim unitive length, can we provide normal work in progress earthing switch?	As per NIT
155.	BOQ_400-220-66kV GIS_Tikrikhurd	As per BOQ Surge arrester is asked for in below bays. 420 KV Feeder Bay Module : 220 KV Feeder Bay Module 66 KV - Transformer Bay Module Feeder Bay Module	As per SLD & BOQ, There is discrepancy in the requirement of Surge arrester for all the voltage class. We understand to follow the BOQ for the same. Your concurrence is requested.	As per NIT
156.	Tikrikhurd_SLD	Distributed CT in Bus coupler	As per SLD, for Bus coupler bay & Sectionalizer bay, Distributed CT is shown in SLD, Can we propose Single side CT in-front of breaker? Request your concurrence.	As per NIT. The proposed SLD is tentative and same shall be finalized during Detailed Engineering.
157.	Tikrikhurd_SLD	Manual IID?? VT in bay without Isolator	As per our prev. experience with major state and central utilities, we recommend to proceed with VT with internal manual isolating type VT in BBM instead of motorized isolated VT. If the VT is motorized, then remote operation is possible. However, the isolation of VT is required only during O&M operation. This can be directly handled at site, which will help to reduce human error and any malfunction, and is better and reliable from safety perspective. This solution, being supplied in the previously executed projects at major utilities projects, is performing faultlessly. Request your concurrence.	As per NIT & Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
158.	Tikrikhurd_Meterologica l Data	for design purposes, ambient temperature and altitude shall be considered as 50 degree centigrade	Since GIS is indoor type & proper ventilation system is available, we understand that the Ambient temperature shall not go beyond 40Deg. C. Our	As per NIT.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			product is type tested for Design ambient temperature of 40 Deg C.	
159.	Tikrikhurd_Overall Scope	Double bus bar arrangement, three 1-phase (isolated) units, 4000A	There is discrepancy in the current rating requirement as per BOQ & overall scope Doc. We understand 420 KV, 3150 A, 40 KV/3Sec @40 Deg C. Request your concurrence.	As per NIT.
160.	Tikrikhurd_Overall Scope	(B) Tie Bay Module, each comprising of : b. Three Nos, 1-Phase, 5-core, multi ratio, current transformers on one side of circuit breaker. c. Three Nos. 1-Phase, 5-core, multi ratio, current transformers on other side of circuit breaker.	Does 5 core on each side is required? We understand One CT with 3 core & other one with 2 core. Request your concurrence.	As per TS Available in the NIT
161.	Tikrikhurd_Overall Scope	f. Three single phase voltage transformers/ PT. g. Three single phase, surge arresters.	There is discrepancy in the requirement of LA & VT as per BOQ & the overall scope document. We understand to follow BOQ. Please confirm.	As per NIT
162.	Tikrikhurd_Overall Scope	XXV. Special Equipment's for testing and maintenance.	Required All required special tools and tackles for ETC of GIS shall be brought by Siemens on returnable basis incl. HV & PD testing kit , DILO gas handling cart.	As per NIT
163.	Tikrikhurd_Overall Scope	XXVIII. Mandatory Spares.	Kindly confirm the requirement.	As per NIT
164.	Tikrikhurd_Overall Scope	In addition all necessary platforms, supports, ladders and catwalks etc. for operation & maintenance work shall also be supplied.	Kindly confirm/specify the requirement if any.	As per TS Available in the NIT
165.	Tikrikhurd_Specific Requirement	12.1 Training of Owner's Personnel The successful tenderer shall also arrange the training of owner's/purchaser's engineers at the	We confirm to provide the site & Factory training for one week.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		manufacturer's works/facility from where the equipment is being supplied for 120-man days in Design,		
166.	Tikrikhurd_Specific Requirement	The bidder shall submit all the applicable type test reports of the equipment in line with latest edition of IS/IEC and validity of the type test reports shall be as per latest CEA guidelines. The type test reports shall be submitted along with the bid. If any applicable type test has not been conducted by the bidder, then the same shall be conducted by the bidder free of cost and without affecting the completion period of the project/tender. In case the item/equipment is not listed in the CEA guidelines, the validity of the respective items/equipment's shall be as per TS.	Summary shall be shared for your review & reference. No repetition of type test is envisaged	As per NIT
167.	TS_400-220-66kV GIS_Tikrikhurd	The equipment offered shall be protected against all types of voltage surges and any equipment necessary to satisfy this requirement shall deemed to be included.	Surge Arrestors shall be considered as per BOQ. Additional surge arrester if required shall be communicated in bid stage itself.	As Per Technical Specification available in NIT
168.	TS_400-220-66kV GIS_Tikrikhurd	Bus bar compartment filled (single phase design)	For proposed 220kV GIS, the Busbar shall be 3 phase encapsulated and the other parts of the switchgear shall be single phase encapsulated. For proposed 66kV GIS, the complete GIS switchgear shall be 3 phase encapsulated. This type of design is in line with technical specification clause no. 2.2. Hence request your acceptance on same.	As Per Technical Specification available in NIT
169.	TS_400-220-66kV GIS_Tikrikhurd	Due to safety	The offered GIS is designed to perform	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		requirement for working on this pressurized equipment, whenever the pressure of the adjacent gas compartment is reduced during maintenance, this compartment shall be designed so that it shall remain in service to perform its intended duty.	switching operations at the rated gas pressure, the operations at reduced gas pressures is never recommended considering safety concerns. The subject clause is against safety norms & not recommended.	
170.	TS_400-220-66kV GIS_Tikrikhurd	5.6. The switchgear shall be of the free standing, self-supporting with easy accessibility to all the parts during installation & maintenance with all high-voltage equipment installed inside gas-insulated metallic and earthed enclosures. GIS should be suitably subdivided into individual arc and gas-proof compartments preferably for: i. Bus bars ii. Intermediate compartment TS of 400_220_66_33kV Gas insulated S/stn. Page 4 68 iii. Circuit breakers iv. Feeder Disconnect Switch v. Voltage Transformers vi. Gas Insulated bus duct section between GIS and XLPE cable/Overhead Conductor. vii. Gas Insulated bus section between GIS & Oil filled Transformer/Reactor (if applicable)	For Compartmentalization requirement, we shall submit the Gas SLD along with technical offer. We request your review & confirmation on the same.	As per TS Available in the NIT
171.	TS_400-220-66kV GIS_Tikrikhurd	The material and thickness of the enclosures shall be		As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing condition. This shall be validated with Type Test.	 Burns through period shall be as per IEC 62271-203 Table 4. Kindly confirm.	
172.	TS_400-220-66kV GIS_Tikrikhurd		As per IEC 62271-203,VFTO applicability to GIS above 300 kV. Accordingly same is applicable only for 420 KV.	As per TS Available in the NIT
173.	TS_400-220-66kV GIS_Tikrikhurd	The enclosure shall be designed to practically eliminate the external electromagnetic field and thereby electro-dynamic stresses even under short circuit conditions. The average intensity of electromagnetic field shall not be more than 50 micro Tesla on the surface of the enclosure. The contractor shall furnish all calculations and documents in support of the above during detailed engineering.	Type test summary shall be submitted for your review & confirmation. Submission of the calculations and documents in this context is not envisaged.	As per TS Available in the NIT
174.	TS_400-220-66kV GIS_Tikrikhurd	Stairs, fixed ladder, platforms, and walkways for operation and maintenance access to the operating mechanism and monitoring devices should be provided to permit access.	If required then portable A Type Ladders with handrail, one no for each SS, for access to operating mechanisms shall be provided. However Stairs, platform and walkway are excluded from GIS OEM scope of supply	As per TS Available in the NIT
175.	TS_400-220-66kV GIS_Tikrikhurd	In addition to above suitable portable scissor lift shall be provided for access of distant portion of GIS installation.	Portable A Type Ladders with handrail, one no for each SS, for access to operating mechanisms & Can serve the purpose for the maintenance. Hence we shall not supply the portable scissor lift.	As per TS Available in the NIT
176.	TS_400-220-66kV GIS_Tikrikhurd	Gas Insulating System c) Any other alarm	This is not applicable for offered GIS hence not	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		necessary to indicate deterioration of the gas insulating system	considered. Same can be achieved with the help of separate device called as gas analyser. Kindly confirm the requirement.	
177.	TS_400-220-66kV GIS_Tikrikhurd	Operating System: v) Pole Discordance.	Pole discordance is not applicable for 72.5 KV GIS, since the design is three phase gang operated design.	As per TS Available in the NIT
178.	TS_400-220-66kV GIS_Tikrikhurd	Temperature rise of all current carrying parts and enclosures shall be limited to the values stipulated in IEC-62271-1, under rated current and the climatic conditions as specified. The temperature rise for accessible enclosure shall not exceed 20 degree C above the ambient temperature of 50 degree C.	As per IEC -62271-1, The temperature rise for accessible enclosure shall not exceed 20 degree C above the ambient temperature of 50 degree C. In the case of enclosures, which are accessible but need not be touched during normal operation, the temperature rise limit may be permitted up to 30 degree C above the ambient of 50 degree C. Request your acceptance on same.	As per TS Available in the NIT
179.	TS_400-220-66kV GIS_Tikrikhurd	The calibration and frequency response of PD couplers shall be as per NGC Technical Guidance note TGN (T) 121, issue 1, 1997	Kindly share, NGC Technical Guidance note TGN (T) 121 NGC applicability limits to National Grid UK applications considering the applicability in Indian Power System. We request a generalized applicability in line with IEC / IEEE / CIGRE/ IS standards. Also kindly note that, the above mentioned standards are revised recently based upon technical recommendations.	As per TS Available in the NIT
180.	TS_400-220-66kV GIS_Tikrikhurd	The horizontal clearance between GIB and GIS building /any other building wall shall be preferably three (3) meters.	Only for GIB Support structure approx. 1 Mtrs distance will be needed from wall to GIB, however minimum required space between building to GIB shall be decided during detailed structure designing for an optimum layout and also to accommodate the future feeder GIB. Request your acceptance on same.	As per TS Available in the NIT
181.	TS_400-220-66kV	The minimum outer to	Phase to Phase distance for	As per TS Available in

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	GIS_Tikrikhurd	outer horizontal clearance between each GIS bus duct shall be 0.5 meter for 220 kV & 66 kV voltage level.	a switchgear is fixed for the offered GIS. The GIB shall be extended to outdoor with the same phase to phase distance for an optimum layout. Request your acceptance on same.	the NIT
182.	TS_400-220-66kV GIS_Tikrikhurd	The Interface module shall be designed to provide Isolating link with access hole on enclosure. The Isolating link shall be provided in such a way so that HV test can be performed on either side of the interface module separately, keeping other side of GIS remained isolated. Interface Module drawing with necessary detail shall be submitted for approval.	We understand that the Interface module and Isolating Link shall be required for future extension and same shall be considered in the scope of GIS OEM who will perform future extension. Kindly confirm.	As per TS Available in the NIT
183.	TS_400-220-66kV GIS_Tikrikhurd	The contractor shall include the supply of all SF6 gas necessary for filling & putting into operation the complete switchgear installation being supplied. The empty gas cylinders shall be returnable to the contractor	Discarding of empty cylinder shall be responsibility of Customer.	As per TS Available in the NIT
184.	TS_400-220-66kV GIS_Tikrikhurd	xxiv. Method statement/ procedure of ON SITE high voltage testing with PD measurement and Switching Impulse test.	Switching Impulse test is not part of routine or online test as per IEC 62271-203. We confirm the Routine test, Type test & onsite test as per IEC 62271-203.	As per TS Available in the NIT
185.	TS_400-220-66kV GIS_Tikrikhurd	The circuit breakers shall be designed for high speed single and three phase reclosing (as applicable) with an operating sequence and timing as specified.	For 72.5 KV, GIS shall be suitable for 3 phase autoreclosing, since the design is gang operated typ.	As per TS Available in the NIT
186.	TS_400-220-66kV GIS_Tikrikhurd	The gap between the open contacts shall be such that it can withstand at least the rated phase to ground voltage for eight hours at zero pressure above atmospheric level of SF6	The Offered GIS is such that the breaker shall be able to withstand dielectric stresses in line with IEC 62271-203 imposed on it in open condition i.e. 2 pu for an duration of 15 min.	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		gas due to its leakage. The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lockout pressure continuously (i.e. 2 p.u. power frequency voltage across the breaker continuously)	Request your acceptance.	
187.	TS_400-220-66kV GIS_Tikrikhurd	CSD requirement for 420 KV	We understand CSD Is not applicable for 220/72.5 KV. For 420 KV, CSD is asked for for Transformer bay & Reactor bay, but the same is not part of BOQ. Please confirm the requirement.	As per TS Available in the NIT
188.	TS_400-220-66kV GIS_Tikrikhurd	This test shall also be performed at site for which the necessary operation analyser along with necessary transducers, cables, console etc. shall be provided.	Operation analyser, transducers, cables, console etc. will be provided on returnable basis, for the testing purpose only.	As per TS Available in the NIT
189.	TS_400-220-66kV GIS_Tikrikhurd	Each disconnecter shall be supplied with auxiliary switch having additional 8 NO (Normally Open) and 8 NC (Normally Closed) contacts for future use over and above those required for switchgear interlocking and automation purposes. These spare NO and NC contacts shall be wired up to the local control cabinet.	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 8 NO (Normally open) and 8 NC (normally closed) contacts shall be provided to customer through contact multiplication relay at LCC.	As per TS Available in the NIT
190.	TS_400-220-66kV GIS_Tikrikhurd	iii. Routine tests on circuit breakers with controlled switching device as per IEC/TR 62271-302.	Routine test on breaker shall be performed without CSD, Since the CSD is installed at site, in LCC panel.	As per TS Available in the NIT
191.	TS_400-220-66kV GIS_Tikrikhurd	I. The secondary winding shall be rated for 2A continuously.	Could you please clarify the requirement of 2 A secondary current. Providing secondary with 2 A affects the insulation level. So we propose CT with secondary current of 1A. Your acceptance is required.	As per TS Available in the NIT
192.	TS_400-220-66kV GIS_Tikrikhurd	Each safety grounding switch shall be	The disconnectors and the safety grounding switches	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		electrically interlocked with its associated disconnectors and circuit breaker such that it can only be closed if both the circuit breaker and disconnectors are in open position. Safety grounding switch shall also be mechanically key interlocked with its associated disconnectors.	are separate modules in GIS design and shall have only electrical inter-locks between them. Additionally, the required padlocking facility shall be provided for the manual interlocking for additional protection. Electrical bolt interlock is not envisaged, interlock shall be based on solenoid technology.	
193.	TS_400-220-66kV GIS_Tikrikhurd	11.3.2. Surge arrestor shall be disconnect-link type and be attached to the gas-insulated system in such a manner that they can be readily disconnected from the system while the system is being dielectrically tested.	For your information, Surge arrestor with inbuilt isolating link shall be supplied. Small amount of degassing will be required.	As per TS Available in the NIT
194.	TS_400-220-66kV GIS_Tikrikhurd	15.2.1. Local Control cubicle shall be either mounted on the GIS with front access or free standing, floor mounting type.	We shall provide Integrated LCC for 72.5 KV & 220 KV. LCC shall be ground mounted for 420 KV.	As per TS Available in the NIT
195.	TS_400-220-66kV GIS_Tikrikhurd	The core insulation and outer sheath of cable shall be of halogen-free special polymer.	For offered GIS, FRLS (Fire Retardant Low Smoke) control cables shall be used which cater the technical requirement of GIS. Proposed FRLS cables are compatible, globally supplied and is in hassle free operation. Request your concurrence on same.	As per TS Available in the NIT
196.	TS_400-220-66kV GIS_Tikrikhurd	17. ELECTRIC OVERHEAD CRANE :		
197.	TS_400-220-66kV GIS_Tikrikhurd	Further, the manufacturer shall furnish the following information during detailed engineering: a) Details regarding the loosely distributed metallic particles within the GIS encapsulation and calculations of critical field strength for specific	f), j), k) Intellectual property of Manufacturer & no such information shall be furnished. However adequate design provisions considered in our offered GIS.	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		particles of defined mass and geometry. b) Study report of VFTO generated for GIS installation. c) The methodology and all the equipment for electrical partial discharge (PD) detection, including that mentioned in the specification elsewhere. d) The calculations and documents in support of the average intensity of electromagnetic field on the surface of the enclosure above during detailed engineering. e) The detailed criteria/design regarding location of pressure relief devices/rupture diaphragms f) Calculations to show that there is no Ferro resonance due to capacitance of GIS for the voltage transformers g) Design calculation for simulated parameters for Seismic level as applicable h) Insulation Coordination studies including studies to recommend for additional surge arrestor i) Calculations in support of touch & step voltages in all enclosures and earthing of complete GIS installation. j) Measures to mitigate transient enclosure voltage by high frequency currents. k) Calculation for providing bus duct supports.		
198.	TS_400-220-66kV GIS_Tikrikhurd	All transport packages containing critical units viz Circuit breakers and Voltage transformers shall	Impact recorders are not required for GIS bay since the bay is designed for the high seismic impulses than	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		be provided with sufficient number of electronic impact recorders (on returnable basis) during transportation to measure the magnitude and duration of the impact in all three directions.	those in the transport. Secondly, the loose shipping units of LA and VT are critical, we shall provide the shock indicators which are sufficient to know whether the equipment has encountered any damage in the transport. We request DTL to kindly accept our proposal.	
199.	TS_400-220-66kV GIS_Tikrikhurd	The adequacy of number of UHF sensors and their location shall be verified as per recommendations of CIGRE task force TF 15/33.03.05 (Task force on Partial discharge detection system for GIS: Sensitivity verification for the UHF method and the acoustic method). In case during site testing additional UHF sensors are required, the same shall also be supplied and installed to complete the technical requirement.	Number of UHF sensors & the location of UHF sensors shall be as per manufacturers' recommendations. Please note that the locations of sensors shall be decided during detailed engineering to achieve the desired sensitivity & the same will be reflected on the drawings which will be submitted for approval. No change on the same recommended and envisaged at site.	As per TS Available in the NIT
200.	TS_400-220-66kV GIS_Tikrikhurd	25.2. Directly after the above test at 25.1, Switching impulse test with three impulses of each polarity and with the value (80 % of the rated switching Impulse withstand level) as per IEC 62271-203 25.4. In case of a disruptive discharge in the gas as outlined in clause no: C.6.2.2 Procedure b) Annexure-C of IEC 62271-203 during Oscillating Switching Impulse Test and a repeat test is performed due to this failure then the repeat test shall be carried out at a value equal to 90 % of the rated switching	switching Impulse is part of type test & not part of routine test or site test. Power frequency test shall be performed on site at 80% of Factory test voltage as per IEC 62271-203.	As per TS Available in the NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Impulse withstand level. 25.5. Method statement/ procedure of ON SITE high voltage testing, PD measurement and Switching Impulse test shall be submitted by contractor in advance		
201.	TS_400-220-66kV GIS_Tikrikhurd	25.8. The analysis of PD measured during High voltage test shall be done very carefully and presence of PD measured by any sensor shall be attended and HV test shall be repeated after the rectification work. Calibration of PD sensors shall be completed before start of HV test to establish reference for detection of PD above 5 pc.	PD at site shall be less than 10pc. Also, the test procedure shall be as per IC 62271-203/	As per TS Available in the NIT
202.	TS_400-220-66kV GIS_Tikrikhurd	TESTING & MAINTENACE EQUIPMENT	Kindly confirm the requirement.	As per TS Available in the NIT
203.	General	Cable trench or cellar	Please confirm if the cable entry is via cellar or trench, We understand for all voltage class, GIS is indoor & placed on the Ground floor only. Your concurrence is requested.	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
204.	Tikrikhurd_Mandatory Spares	SF6 gas 20% of total quantity	Since 20% of total quantity becomes huge, also busduct quantity is not sepcified, we shall supply the spare gas, 10% of bay portion. Your concurrence needed.	As per NIT
205.	Tikrikhurd_Mandatory Spares	Bus Support insulator of each type for 3 phase/single phase enclosure.	We shall supply one no. each type. Supplying enclosure.5% of installed/ used population is not feasible.	As per NIT
206.	Tikrikhurd_Mandatory Spares	1.9.1 For 3 Phase Enclosure 2 Nos. 1.9.2 For Single phase enclosure 3 Nos.	Please clarify the requirement?	As per NIT
207.	Tikrikhurd_Mandatory Spares	28.3. SF6 gas analyzer: 28.4. Portable Partial Discharge(PD) monitoring system	Kindly confirm the requirement.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		28.5. Online Partial Discharge Monitoring System (Applicable 400 kV GIS)		
208.	General	Contour map	"We understand that this station will be placed in a single level. Please provide us the contour map and proposed finishing ground level(F.G.L.) w.r.t. existing ground level in order to assess the foundation depths for the proposed SWYRD"	Bidder may visit the site for assessment and it shall be the responsibility of contractor / bidder to verify the existing details during site visit.
209.	General	Soil Investigation Report	Please provide us the soil investigation report for proposed Substation which shall be binding during execution. We shall consider the same for estimations of entire scope and shall be binding during execution. Any change in soil data shall be having time and cost implication. Kindly share.	As per NIT. All these works are in the scope of bidder and shall be finalized during Detailed Engineering.
210.	General	Pile Foundations	Bidder seeks confirmation that there shall be no piling works required for this package. We are considering normal foundations for estimation. Please confirm.	It is confirmed that pile foundation work has been considered in the tender scope, as specified in Section – Project, Vol.-II of the NIT
211.	Civil Technical Specifications Page 2 of 34 Point No 1.1.7.	Land Development	"1.1.7 Fairly leveled land shall be handed over to the Contractor by the owner. Finished ground level shall be the finished formation level furnished by the owner." 1. Bidder understands that Finished formation level shall be provided to the Bidder which also shall be Finished ground level & raising upto the FFL shall be in the scope of the Bidder. Kindly confirm. 2. DTL shall provide the land encumbrance free along with the well leveled compacted land +/- 100mm of FGL for the proposed SWYRD. Kindly confirm.	The existing substation is fairly levelled land. Further, the land filling upto existing 66kV GIS is in the scope of the bidder and has been included under Price Schedule-3 of the NIT.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			3. As per site visit conducted by us, we understand that retaining wall should be required for retaining filled up soil at boundary line. Request DTL to clarify whether retaining wall/slope protection works shall be in DTL scope as a part of land development. 4. Kindly do clarify whether Supply and filling earth at site as per the price schedule PS3-ETC-Civil Item no 11 to be considered or not?	
212.	Site Visit	Retaining Wall	As per the site visit Bidder noticed that there is 3-4 m filling required along the plot boundary. Bidder understands that the retaining wall works required for maintaining the level differences shall be in M.s DTL Scope or Bidders Scope. Kindly clarify.	As per site requirement in line with NIT
213.	Section1- Project XLIII. Civil works Point no 2	Approach Road	As per the civil scope of works page No 13 of 70 approach road is mentioned in scope however Bidder understands that that approach road to the substation is not in the scope of bidder since Road outside the boundary is excluded from the scope of works as per the clause No 3.6 (Page 15 of 70). Kindly confirm	As per NIT
214.	Civil Technical Specifications Page 2 of 34 Point No 17.	Green House Building	Bidders requests M/s DTL to share the technical requirements of green building concept of Energy Conservation cell for this package.	Refer Annexure-VII of Section Project, Volume-II of NIT
215.	Civil Technical Specifications Page 2 of 34 Point No 16.	TAC recommendations	Bidders requests M/s DTL to share the TAC recommendations for this package.	As per NIT
216.	Civil Technical Specifications	List of Recycled C&D Products	Bidders requests M/s DTL to share the list of	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	Page 33 of 34 Point No 12.		approved/authorized manufacturer/vendor for C & D products.	
217.	General	Mode of Measurement	Request DTL to provide the mode of measurement for all the line items of Price Schedule. Kindly clarify measurement for all the civil works will be as per IS1200.	As per NIT
218.	Civil Technical Specifications Page 31 of 34 Point No 10	Ground Levels	Finished level in civil works - Page 30 & 31 of 34. Based on this clause kindly define us in which level M/s DTL shall hand over this substation.	As per NIT
219.	Section1- Project XLIII. Civil works 5. Buildings h. Security rooms, site offices and parking shed	Security rooms, site offices and parking shed	Request DTL to confirm the requirements. 1. Security Room and Site Office shall be with AC PORTA Cabins. 2. Parking shall be open parking with Roof Sheeting. 3. Size requirement of the Security Room, Site Office and Parking	As per NIT.
220.	Section1- Project XLIII. Civil works 7. Buildings e. 400kV Store Room, 66kV Store Room	Store Rooms	Request DTL to confirm the requirements. 1. Store Room shall be Single Floor with RCC slab and brick masonry walls 2. We understand that GIS store will be built with a common shared wall to proposed 400kV GIS building separately 3. As per the layout there is no store requirement along the 66kV and 220 kV GIS building.	As per NIT
221.	Price Schedule II Civil Works M. Demolition/Dismantling existing fencing/structures etc., Tree cutting/shifting etc. and recovery of material with scrap value as per site condition, if any	Tree Cutting/Shifting	As per the site visit we have noticed that there are approx 10 Nos. of Big trees and plenty of small and big bushes are in the proposed site. The Bidders were informed that all the tree cutting including roots/shifting/disposal etc. shall be done by M/s DTL including permissions etc. and levelled land shall be	Permission for Tree Cutting/Shifting/Relocation shall be obtained by DTL however, tree cutting/shifting/ relocation shall be in the scope of the bidder.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			provided to the successful Bidder. Kindly confirm.	
222.	Price Schedule II Civil Works H. Buildings 7. Pump House	Pump House	Request DTL to confirm the requirements. 1. Pump House shall be with RCC slab and Brick Masonry Walls. Kindly confirm. 2. Size requirement of the Pump House.	As per NIT, same shall be finalized during Detailed Engineering .
223.	Civil Technical Specifications Page 34 of 34 22. Sewerage System	Sewerage System	"In case municipal sewer line is available in the area, the connection of sewerage system of switch yard building with municipal sewer shall be in the scope of bidder". As per the site visit there is no sewer line available so The Contractor shall construct septic tank and soak pit suitable for 50 users for sub station. Kindly confirm.	As per NIT
224.	Civil Technical Specifications Page 22 and 23 of 34 (B) GIS BUILDING	Cable Cellar in 400 kV GIS Building	"Cable cellar room in GIS building shall be provided." Bidder seeks clarification against this clause for 400 kV GIS Building 1. Is this mandatory requirements or Bidder can propose cable trenches based on the connection between the GIS and the outer equipment? Kindly confirm. 2. Incase of cable cellar floor requirement, the same shall be constructed above FGL? 3. Bidder is free to propose either cable cellar floor or cable trenches in case the connection between the switchgear and other equipment is through HV / EHV Power Cables.	Not required at 400kV GIS building.
225.	Civil Technical Specifications Page 22 and 23 of 34 (B) GIS BUILDING	Cable Cellar in 220 kV GIS Building	"Cable cellar room in GIS building shall be provided." Bidder seeks clarification against this clause for 220 kV GIS Building 1. Is this mandatory	Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			requirements or Bidder can propose cable trenches based on the connection between the GIS and the outer equipment? Kindly confirm. 2. Incase of cable cellar floor requirement, the same shall be constructed above FGL? 3. Bidder is free to propose either cable cellar floor or cable trenches in case the connection between the switchgear and other equipment is through HV / EHV Power Cables.	
226.	Civil Technical Specifications Page 22 and 23 of 34 (B) GIS BUILDING	Cable Cellar in 66 kV GIS Building	"Cable cellar room in GIS building shall be provided." Bidder seeks clarification against this clause for 66 kV GIS Building 1. Is this mandatory requirements or Bidder can propose cable trenches based on the connection between the GIS and the outer equipment? Kindly confirm. 2. Incase of cable cellar floor requirement, the same shall be constructed above FGL? 3. Bidder is free to propose either cable cellar floor or cable trenches in case the connection between the switchgear and other equipment is through HV / EHV Power Cables.	As per NIT.
227.	Civil Technical Specifications Page 22 of 34 (B) GIS BUILDING	Building Sizes	"Dimensions of the building shall be decided by the bidder depending upon requirement" 1. As per the clause Bidder understands that Tentative building sizes are provided in the layout which can be optimized to the requirements of the contract with the best practices and clearances as per norms and the sizes can be defined by the	Detailed Design and Engineering is in the scope of bidder. Space provision for the 02no 220kV bays and 03 no. 66kV bays shall be considered.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			successful bidder as per the equipment sizes? Kindly confirm. 2. Space for GIS & CRP for future bays are included in the building sizes mentioned in the layout. Kindly confirm.	
228.	Civil Technical Specifications Page 21 of 34 15.0 BUILDINGS - GENERAL REQUIREMENTS	Building Type	"The buildings shall be of RCC framed structure of concrete of M25 grade (Min.). " 1. Can Bidder propose Pre Engineered Building instead of complete RCC building. 2. If yes please share the Technical specifications of the Pre Engineered Building. Kindly confirm.	As per NIT
229.	Civil Technical Specifications Page 23 of 34 (B) GIS BUILDING 15.2.1 DESIGN Point No 6	Building Architecture	"to be aesthetically pleasing. Different buildings shall show a uniformity and consistency in architectural design. " 1. Kindly give the exact details on aesthetic pleasing for the buildings? Kindly elaborate? 2. The Bidder understands that there is no requirement of any architectural finishes like facade, glazing, cladding, curtain wall etc. for the proposed buildings. Kindly confirm.	As per NIT
230.	Tender Layout	400 kV, 220kV GIS & 66kV GIS building	As per the referred document, we understand that the building dimensions are indicative only. Space for GIS & CRP for future bays are to be considered with present scope for building sizing. Please confirm.	The layout attached in tender document is tentative. Details shall be finalized during Detailed Engineering stage.
231.	General	Cable Termination	We understand that 220kV connection between GIS & transformer is through cables. The cable may be terminated inside or out side the Building. Please confirm our understanding is correct.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
232.	General	Cable Termination	We understand that 66kV connection between GIS & transformer is through cables. The cable may be terminated inside or outside the Building. Please confirm our understanding is correct.	66 kV cable termination at the GIS end shall be inside the GIS building, whereas the 66 kV cable termination at the transformer end shall be outside the GIS building.
233.	Layout	66kV GIS building	As per the layout 66kV GIS bldg is of 50MX12M i.e. 600 sqm but as per the civil scope of works 66kV GIS building is of 500 sqm. Kindly clarify which building dimensions need to be considered.	The dimension mentioned in the tentative layout / BPS is tentative. However, complete Design and Engineering is in the scope of bidder which is to be finalized during Detailed Engineering without compromising the clearances as per prevailing guidelines/regulations.
234.	Civil Technical Specifications Page 1 of 34 1.1 SCOPE OF WORK 1.1.4 Point No 1	Additional Floor Load	Additional floor loading to be considered for future – What is the load that needs to be considered additionally over and above the present scope of works in civil control room and GIS building?	As per NIT. The loading details will be same as that of top floor.
235.	Civil Technical Specifications Page 1 of 34 1.1 SCOPE OF WORK 1.1.4 Point No 8	Soil Sterilization	"""" Soil sterilization""". Bidder Request M/s. DTL to clarify 1. Scope of soil sterilization as no specification for the same is available. 2. In which area this is to be done?"	As per NIT
236.	Civil Technical Specifications Page 31 of 34 18.0 SUBSTATION BOUNDARY WALL : (Deleted)	Boundary wall	As per the Civil Technical Specifications Clause No 18, the item against boundary wall is deleted whereas the boundary wall item is there in the price schedule 1. Kindly clarify whether to consider the boundary wall in Bidder scope or not? 2. If yes kindly share the technical specifications of the boundary wall.	As per BOQ. Boundary wall specification has been attached as Annexure-A. Design and Engineering is in the scope of bidder.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
237.	Section1- Project XLIII. Civil works 5. Buildings c. Construction of 66kV GIS building extension	Extension of 66kV GIS building	As per the bid layout the size of 66 kV GIS building is 50X12 m i.e 600 sqm. However in Civil Specification it is mentioned 66 kV GIS Bldg of size 500 sqm. Bidder understands to consider the 66 kV GIS building size as per specification i.e 500 sqm. Kindly confirm. Request M/s.DTL to share us the existing 66kV GIS building drawings where in extension needs to be carried out. Kindly do confirm for extension of existing building 'Twin columns' are available in the proposed extension side.	As per NIT
238.	Layout	Proposed control room building	Request M/s. DTL to share us the proposed control room building plan with each room dimensions in LXBXD along with sections and finishing	Tentative layout already available in the NIT, however Design and Engineering is in the scope of bidder and shall be finalized during Detailed Engineering
239.	Site Visit	Existing 400 kV Tower	As per the site visit we have noticed that there is a 400 kV Tower inside the plot area. Bidder seeks confirmation that this tower shall be dismantled including foundations by M/s DTL before handing over of site to Bidder.	DTL will dismantle the 400kV tower only however demolishing of its foundation and other allied works are in the scope of bidder.
240.	General	Land possession	We understand that land is already occupied with DTL with all Forest and Environment Clearances etc. Hassle free land ready for Construction shall be handed over to us. Kindly confirm	As per NIT
241.	General	Cement, Reinforcement steel and structural steel	Request you to provide us the approved brands for cement and steel.	As per NIT/Latest BIS Codes
242.	General	Hindrance register	Hinderance register for delays due to natural calamities, force majeure and climatic conditions etc.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			shall be maintained by us. Against which necessary extension and claim shall be given to us. Please confirm.	
243.	General	Existing Utilities	We understand that the Substation Area provided by M/S DTL to the contractor shall be free from any other service / utilities of existing under ground / above ground. Please confirm.	As per NIT. Bidder should visit the site and assess accordingly before bidding. Further, this is an existing sub-station and free from other service / utilities inside the premises.
244.	General	Site office/Store/Site Infra	Please confirm us that necessary land for site office/store/batching plant will be provided to us within present DTL site premises for smooth coordination works.	As per NIT
245.	General	Labor Camps	Please confirm us that necessary land for labor colony will be provided to us near the area under present scope.	As per NIT
246.	General	Tree, Vegetation and Land Clearance	The Bidder understands that all tree and vegetation clearance shall be in scope of M/s DTL including permissions. M/s DTL shall provide ready to construct land to start the construction activities.	Permission for Tree Cutting/Shifting/relocation shall be obtained by DTL however, tree cutting/ shifting/ relocation shall be in the scope of the bidder
247.	General	Point of disposal	Bidder Request M/s DTL to confirm the distance and location of disposal point for excavated earth ,dismantled debris, Surplus earth / boulders/ rocks beneath the ground (if available)	As per NIT
248.	General	Drain Outfall Point	Bidder Request M/s DTL to confirm the distance and location of drain outfall point from the boundary wall of Substation.	As per NIT
249.	General	Water and power	We understand that single point for water and power shall be provided to us near the station premises in free of cost. Please confirm.	As per NIT
250.	TS- Civil Works	Location of the site	Its in the heart of the city. Most of the works shall be	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			done in Night time due to traffic movements in day time for transit mixers and heavy vehicles. In that case necessary transit permits, permission from traffic police, nearby residents will be done by M/s.DTL in coordination with successful bidder. Kindly confirm.	
251.	General	Right of way	Bidder understands that any clearances/activities w.r.t. a) Forest Clearance and Tree Cutting (as applicable) b) Right of Way c) Railway Clearance (if applicable) d) Unauthorized Construction e) any other site access restrictions shall be in Customer's scope. Kindly confirm. Any cost incurred w.r.t. the same shall be to Customer's Scope. Suitable time extension shall be given to the bidder for such access restrictions/other restrictions. Kindly Confirm.	Permission for Tree Cutting/Shifting/relocation shall be obtained by DTL however, tree cutting/ shifting/ relocation shall be in the scope of the bidder
252.	General	Civil Drawings	Kindly provide us the standard civil drawings pertaining to substations like GIS building, tower foundations, building, equipment foundations, chain link fence, boundary wall, road etc.	Design and Engineering is in the scope of bidder
253.	General	Drain Outfall Point	Bidder Request M/s DTL to confirm 1. The distance and location of drain outfall point from the boundary wall of Substation. 2. Is the land for construction of drainage to the outfall point is of DTL? Kindly confirm. If not necessary ROW from any other departments or PVT parties shall be obtained by DTL. Kindly confirm.	Design and Engineering is in the scope of bidder. Further, for better understanding, bidder may visit the site.
254.	General	Use of Manufacture Sand	Kindly confirm, Manufacture sand can be	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			used for all the civil works	
255.	General	Construction material field testing	Request DTL to provide the detail of approved test labs	As per NIT
256.	General	Construction item Makes	Request DTL to provide the details of makes of construction materials like cement, R/F steel, structural steel, tiles, pipes, paints etc.	As per NIT
257.	General	Construction material field testing lab and manufacturer	Request DTL to provide the detail of approved test labs and also provide the makes / brand of construction item.	As per NIT
258.	General	Use of PPC grade cement	We assume that PPC grade cement can be used for all the CC and RCC works. Kindly confirm	As per NIT
259.	Civil Technical Specifications Page 23 of 34 15.2.1 DESIGN	Civil Design	Design of substation civil & structural works shall be done using the following codal provisions. 1. Design of dead, live and wind loads : IS 875 2. Seismic loads : IS 1893 (Part I) 3. RCC design : IS 456 4. Switchyard Structure design : IS 802 5. Switchyard foundation design : IS 1904 and IS 4091 6. Reinforcement detailing : SP 34	As per NIT and shall be finalized during Detailed Engineering.
260.	General	Drain Outfall Point	Bidder requests customer to provide drainage outfall point along with its invert levels to plan substation drainage works.	As per NIT
261.	General	Civil Design	Bidder requests customer to provide design specification of civil works and structural works, based on which design, engineering & preparation of drawings shall be carried out.	As per NIT. Further, Design and Engineering is in the scope of bidder.
262.	Civil Technical Specifications Page 23 of 34 15.2.1 DESIGN	Civil Design	Bidder understands that all the geographical data/design loads shall be as per IS 875 (Part 3) and IS 1893 (Part 1) for wind and seismic respectively.	As per NIT Latest IS shall be applicable.
263.	Past DTL Project	Civil Design	As per past experience with	As per NIT.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	Reference		DTL, minimum beam width of RCC buildings shall not be less than 300 mm. Is it still applicable for this package please confirm.	Latest IS shall be applicable. Further, Design and Engineering is in the scope of bidder
264.	Past DTL Project Reference	Civil Design	As per past experience with DTL, minimum dia of slab reinforcement shall not be less than 10 mm. Is it still applicable for this package please confirm.	As per NIT. Latest IS shall be applicable. Further, Design and Engineering is in the scope of bidder
265.	Past DTL Project Reference	Civil Design	As per past experience with DTL, minimum dia of column reinforcement shall not be less than 16 mm. Is it still applicable for this package please confirm.	As per NIT. Latest IS shall be applicable. Further, Design and Engineering is in the scope of bidder
266.	Past DTL Project Reference	Civil Design	As per past experience with DTL, design of boundary wall shall be carried out considering low land areas outside the DTL premises. Is it still applicable for this package please confirm.	As per NIT
267.	Past DTL Project Reference	Civil Design	As per past experience with DTL, all the foundations should rest minimum 2 mtr below natural ground level in case of open / raft foundations. Is it still applicable for this package please confirm.	As per NIT. Latest IS shall be applicable. Further, Design and Engineering is in the scope of bidder .
268.	Past DTL Project Reference	Cable Cellar	As per past experience with DTL, there shall be cable cellar required in 66 kV GIS building. Is it still applicable for this package please confirm.	As per NIT
269.	Underground Services	Site	Bidder understands that there are no hidden underground structures or facilities inside the substation premises. Kindly confirm.	As per NIT. Bidder should visit the site and assess accordingly before bidding.
270.	Civil Price Schedule - BOQ Item No II (F)	Water conservation management & waste management	Request M/s. DTL to provide the details and drawings pertaining to Water conservation management and waste management.	As per NIT
271.	Special Conditions of Contract - Project Completion Timelines	Completion Period	Request M/s.DTL to revise the delivery schedule, since for civil works its required	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			to have 30 months for completion and overall 42 months to complete the project. Kindly confirm	
272.	Section - IV Conditions of Contract (CC) Clause No. 6.	Settlement of Disputes (Note: - Bidder shall not approach the court while representing the matters to IEMs and bidder will await their decision in the matter.)	The note is not acceptable. This would be dealt with on a case to case basis. So we request you to kindly remove the same.	As per NIT
273.	Section - IV Conditions of Contract (CC) Clause No. 6.2.1	Any controversy, dispute, or claim of any nature arising out of, in connection with, or in relation to the interpretation, performance, enforcement or breach of this Contract/Agreement (and any closing document executed in connection herewith), including any claim based on contract, tort or statute, shall be resolved before the Commercial Courts as per Commercial Courts Act, 2015. The Agreement shall be subject to jurisdiction of the courts at New Delhi.	Any controversy, dispute, or claim of any nature arising out of, in connection with, or in relation to the interpretation, performance, enforcement or breach of this Contract/Agreement (and any closing document executed in connection herewith), including any claim based on contract, tort or statute, shall be settled by arbitration in accordance with the DIAC (Arbitration Proceedings) Rules. ~~shall be resolved before the Commercial Courts as per Commercial Courts Act, 2015.~~ The seat of arbitration shall be New Delhi. The Agreement shall be subject to jurisdiction of the courts at New Delhi.	As per NIT
274.	Section - IV Conditions of Contract (CC) Clause No. 7.2	The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of the Facilities as if such work and/or items and materials were expressly mentioned in the Contract.	The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of the Facilities as if such work and/or items and materials were expressly mentioned in the Contract. Where any work, item or material is not expressly specified in	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			the Contract and would result in additional cost, time or resources beyond those reasonably contemplated by the Contract, the Contractor shall be entitled to an appropriate adjustment to the Contract Price and/or Time of completion.	
275.	Section - IV Conditions of Contract (CC) 13.3 Performance Security	13.3.1 The Bidder shall submit performance security @ 10% of the total contract price for the performance of contract within twenty-eight days (28 days) from the issuance of notifications of award. The Material shall not be accepted without depositing performance security.	We request you to kindly reduce performance security from 10% to 5% of contract price.	As per NIT
276.	Section - IV Conditions of Contract (CC) Clause 16.3	The obligation of a party under CC Sub-Clauses 16.1 and 16.2 above, however, shall not apply to that information which (a) now or hereafter enters the public domain through no fault of that party (b) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party hereto (c) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality	The obligation of a party under CC Sub-Clauses 16.1 and 16.2 above, however, shall not apply to that information which (a) now or hereafter enters the public domain through no fault of that party (b) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party hereto (c) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality or (d) is independently developed by a party without use of, reference to, or reliance upon the other party's confidential information.	As per NIT
277.	Section - IV Conditions of Contract (CC) Clause 16.5	The provisions of this CC Clause 16 shall survive termination, for whatever reason, of the Contract.	The provisions of this CC Clause 16 shall survive termination, for whatever reason, of the Contract, for a period of three (3) years from the date of termination or expiration of the Contract.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
278.	Section - IV Conditions of Contract (CC) Clause 17.2.1	If the Contractor's Representative is not named in the Contract, then within fourteen (14) days of the Effective Date, the Contractor shall appoint the Contractor's Representative and shall request the Employer in writing to approve the person so appointed. If the Employer makes no objection to the appointment within fourteen (14) days, the Contractor's Representative shall be deemed to have been approved. If the Employer objects to the appointment within fourteen (14) days giving the reason therefore, then the Contractor shall appoint a replacement within fourteen (14) days of such objection, and the foregoing provisions of this CC Sub-Clause 17.2.1 shall apply thereto.	If the Contractor's Representative is not named in the Contract, then within ~~fourteen (14)~~ Thirty (30) days of the Effective Date, the Contractor shall appoint the Contractor's Representative and shall request the Employer in writing to approve the person so appointed. If the Employer makes no objection to the appointment within ~~fourteen (14)~~ Thirty (30) days, the Contractor's Representative shall be deemed to have been approved. If the Employer objects to the appointment within ~~fourteen (14)~~ Thirty (30) days giving the reason therefore, then the Contractor shall appoint a replacement within ~~fourteen (14)~~ Thirty (30) days of such objection, and the foregoing provisions of this CC Sub-Clause 17.2.1 shall apply thereto.	As per NIT
279.	Section - IV Conditions of Contract (CC) Clause 18.4	Progress of Performance If at any time the Contractor's actual progress falls behind the program referred to in CC Sub-Clause 18.2 (Program of Performance), or it becomes apparent that it will so fall behind, the Contractor shall, at the request of the Employer or the Project Manager, prepare and submit to the Project Manager a revised program, taking into account the prevailing circumstances, and shall notify the Project Manager of the steps being taken to expedite progress so as to attain Completion of the Facilities within the Time for Completion under CC Sub Clause 8.2 (Time for Commencement and	Progress of Performance Except due to events beyond the control of the Contractor in which case the Contractor shall have no liability, If at any time the Contractor's actual progress falls behind the program referred to in CC Sub-Clause 18.2 (Program of Performance), or it becomes apparent that it will so fall behind, the Contractor shall, at the request of the Employer or the Project Manager, prepare and submit to the Project Manager a revised program, taking into account the prevailing circumstances, and shall notify the Project Manager of the steps being taken to expedite progress so as to attain Completion of the	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Completion), any extension thereof entitled under CC Sub-Clause 40.1 (Extension of Time for Completion), or any extended period as may otherwise be agreed upon between the Employer and the Contractor.	Facilities within the Time for Completion under CC Sub Clause 8.2 (Time for Commencement and Completion), any extension thereof entitled under CC Sub-Clause 40.1 (Extension of Time for Completion), or any extended period as may otherwise be agreed upon between the Employer and the Contractor.	
280.	Section - IV Conditions of Contract (CC) Clause 21.3.4	The Contractor shall be responsible for obtaining, if necessary, approvals from the authorities for transportation of the Plant and Equipment and the Contractor's Equipment to the Site. The Employer shall use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining such approvals, if requested by the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any claim for damage to roads, bridges or any other traffic facilities that may be caused by the transport of the Plant and Equipment and the Contractor's Equipment to the Site.	The Contractor shall be responsible for obtaining, if necessary, approvals from the authorities for transportation of the Plant and Equipment and the Contractor's Equipment to the Site. The Employer shall use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining such approvals, if requested by the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any claim for damage to roads, bridges or any other traffic facilities that may be caused by the acts or omissions of the Contractor in the transport of the Plant and Equipment and the Contractor's Equipment to the Site.	As per NIT
281.	Section - IV Conditions of Contract (CC) Clause 21.7	Indemnity Bond For the equipment/material to be provided by the Contractor, it will be the responsibility of the Contractor to take delivery, unload and store the material at Site and execute an Indemnity Bond in favour of the Employer against loss, damage and any risks	Indemnity Bond For the equipment/material to be provided by the Contractor, it will be the responsibility of the Contractor to take delivery, unload and store the material at Site and execute an Indemnity Bond in favour of the Employer against actual loss, damage and any risks incurred/ sustained by the Employer	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		involved for the full value of the material and obtain authorization letter from Employer as per proforma given at Section-VI. This Indemnity Bond shall be furnished by the Contractor before commencement of the supplies and shall be valid till the scheduled date of Operational Acceptance of the equipment by the Employer	~~involved for the full value of the material~~ and obtain authorization letter from Employer as per proforma given at Section-VI. This Indemnity Bond shall be furnished by the Contractor before commencement of the supplies and shall be valid till the scheduled date of Operational Acceptance of the equipment by the Employer	
282.	Section - IV Conditions of Contract (CC) Clause 22.2.1	All Contractors' Equipment brought by the Contractor onto the Site shall be deemed to be intended to be used exclusively for the execution of the Contract. The Contractor shall not remove the same from the Site without the Project Manager's consent that such Contractor's Equipment is no longer required for the execution of the Contract.	~~All Contractors' Equipment brought by the Contractor onto the Site shall be deemed to be intended to be used exclusively for the execution of the Contract.~~ The Contractor ~~shall~~ may not remove the same from the Site ~~without the Project Manager's consent that~~ unless such Contractor's Equipment is no longer required for the execution of the Contract.	As per NIT
283.	Section - IV Conditions of Contract (CC) Clause 22.3.1.2	The Contractor shall keep the employer indemnified against any action by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments.	The Contractor shall keep the employer indemnified against any action by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments that are applicable to the Contractor's performance hereunder.	As per NIT
284.	Section - IV Conditions of Contract (CC) Clause 22.3.1.3	If the Employer is caused to pay, under any law as principal employer such amounts as may be necessary to cause or as observe, or for non observance of the provisions stipulated in the notifications / byelaws / Acts / Rules / regulations including amendments, if any, on the part of the Contractor, the Employer	If the Employer is caused to pay, ~~under any law~~ pursuant to any court order or governmental authority requirement, as principal employer such amounts as may be necessary to cause or as observe, or for non observance of the provisions stipulated in the notifications / byelaws / Acts / Rules / regulations including amendments, if	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		shall have the right to deduct any money due to the Contractor under this contract or any other contract with employer including his amount of performance security for adjusting the aforesaid payment. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.	any, on the part of the Contractor, the Employer shall have the right to deduct any money due to the Contractor under this contract or any other contract with employer including his amount of performance security for adjusting the aforesaid payment. ~~The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.~~	
285.	Section - IV Conditions of Contract (CC) Clause 22.3.2	Protection of Environment The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution noise or other causes arising as consequence of his methods of operation. During continuance of the Contract, the Contractor and his Sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or Notification that may be issued in this respect in future by the State or Central Government or the local authority.	Protection of Environment The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution noise or other causes arising as consequence of his methods of operation. During continuance of the Contract, the Contractor and his Sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or Notification that may be issued in this respect in future by the State or Central Government or the local authority provided that they are applicable to the Contractor's performance hereunder.	As per NIT
286.	Section - IV Conditions of Contract (CC)	If any Plant and Equipment or any part of the Facilities fails to pass	If any Plant and Equipment or any part of the Facilities fails to pass any test and/or	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	Clause 23.6	any test and/or inspection, the Contractor shall either rectify or replace such Plant and Equipment or part of the Facilities and shall repeat the test and/or inspection upon giving a notice under CC Sub-Clause 23.3. If the inspection is not materialized due to the reasons attributable to contractor then all the expenses including to & fro airfare and TA, DA shall be to the account of the contractor.	inspection, the Contractor shall either rectify or replace such Plant and Equipment or part of the Facilities and shall repeat the test and/or inspection upon giving a notice under CC Sub-Clause 23.3. If the inspection is not ~~materialized~~ conducted solely due to the reasons attributable to contractor then all the expenses including to & fro airfare and TA, DA shall be to the account of the contractor.	
287.	Section - IV Conditions of Contract (CC) Clause 25.2.3.2	In the event that the period of suspension under Sub-Clause CC 25.2.3 actually exceeds one hundred eighty (180) days, the Employer and the Contractor shall mutually agree to any additional compensation payable to the Contractor.	In the event that the period of suspension under Sub-Clause CC 25.2.3 actually exceeds one hundred eighty (180) days, the Employer and the Contractor shall mutually agree to any additional compensation payable to the Contractor. In any event if the suspension continues for a period as aforementioned, the Contractor reserves its right to terminate the Contract, in whole or in part, without any liability to the Employer and without prejudice to its rights accrued prior to such termination.	As per NIT
288.	Section - IV Conditions of Contract (CC) Clause 26.2	If the Contractor fails to comply with the Time for Completion in accordance with Clause CC 26 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to 0.05% (zero point zero five percent) Contract Price for the whole of the facilities, (or a part for which a separate time for completion is	Except due to events beyond the control of the Contractor, If the Contractor fails to comply with the Time for Completion in accordance with Clause CC 26 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to 0.05% (zero point zero five percent) of the value of the delayed work ~~Contract~~	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		agreed) as liquidated damages for such default and not as a penalty, without prejudice to the Employer's other remedies under the Contract, for each day which shall elapse between the relevant Time for Completion pursuant to Clause 26.1 above and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of five percent (5%) of Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed). The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/damage which will be suffered by the Employer for default on the part of the Contractor and said amount will be payable without proof of actual loss or damage caused by such default. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract. Note:-If the supply of any equipment or execution of any work does not affect	~~Price for the whole of the facilities, (or a part for which a separate time for completion is agreed)~~ as liquidated damages for such default and not as a penalty, ~~without prejudice to the Employer's other remedies under the Contract,~~ for each day which shall elapse between the relevant Time for Completion pursuant to Clause 26.1 above and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of five percent (5%) of Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed). The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/damage which will be suffered by the Employer for default on the part of the Contractor and said amount will be payable without proof of actual loss or damage caused by such default. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.	

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		the Taking Over of the whole of the Works (or a part for which a separate time for completion is agreed or), then the Liquidated Damages (LD) towards such delayed supply or work shall be levied in proportion to their Cost with maximum limit of 05% of their Cost.	The parties agree that any Liquidated Damages due and owing to Employer under this Contract shall be Employer's sole remedy for any damages suffered as a result of late delivery. Note:-If the supply of any equipment or execution of any work does not affect the Taking Over of the whole of the Works (or a part for which a separate time for completion is agreed or), then the Liquidated Damages (LD) shall not apply. ~~towards such delayed supply or work shall be levied in proportion to their Cost with maximum limit of 05% of their Cost.~~	
289.	Section - IV Conditions of Contract (CC) Clause 27.2	The Defect Liability Period shall 60 months for major equipment such as Gas Insulated Switchgear (GIS) bay including Gas insulated bus duct (GIB), Power/Auto Transformers, Reactors, all AIS bay equipment, Mono Pole/Lattice towers and Power cables including its end terminations & straight through joints (of 400KV, 220KV, 66KV, 33KV levels) and 18 months for all other items from the date of Commissioning/Completion of the facilities	The Defect Liability Period shall ~~60 months~~ 24 months for major equipment such as Gas Insulated Switchgear (GIS) bay including Gas insulated bus duct (GIB), Power/Auto Transformers, Reactors, all AIS bay equipment, Mono Pole/Lattice towers and Power cables including its end terminations & straight through joints (of 400KV, 220KV, 66KV, 33KV levels) and 18 months for all other items from the date of Commissioning/Completion of the facilities	As per NIT
290.	Section - IV Conditions of Contract (CC) Clause 27.8	27.8 If the facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part	27.8 If the facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		cannot be used by the Employer because of any of the aforesaid reasons. Upon correction of the defects in the Facilities or any part thereof by repair/ replacement, such repair/replacement shall have the Defect Liability Period extended by a period of twenty-four (24) months for major equipment as mentioned at 27.2 above and 6 months for all other items from the time such replacement/repair of the facilities or any part thereof, subject to the condition that the overall period of Defect Liability shall not be less than Sixty (60) months and more than Eighty-four (84) months for major equipment as mentioned at 27.2 above and shall not be less than eighteen (18) months and more than twenty-four (24) months for all other items from the date of issuance of respective Commissioning/Completion	cannot be used by the Employer because of any of the aforesaid reasons. Upon correction of the defects in the Facilities or any part thereof by repair/ replacement, such repair/replacement shall have the Defect Liability Period extended by a period of twenty-four (24) months for major equipment as mentioned at 27.2 above and 6 months for all other items from the time such replacement/repair of the facilities or any part thereof, subject to the condition that the overall period of Defect Liability shall not be less than ~~Sixty (60)~~ Twenty Four (24) months and ~~more than Eighty four (84) months~~ for major equipment as mentioned at 27.2 above and shall not be less than eighteen (18) months and more than twenty-four (24) months for all other items from the date of issuance of respective Commissioning/Completion.	
291.	Section - IV Conditions of Contract (CC)	Clause 27.11 (new addition)	Contractor's warranty obligations hereunder shall not apply to: (i) normal wear and tear of the item, work or material; or (ii) Employer's or Employer appointed third party's storage, installation, operation or maintenance of the item, work or material contrary to Contractor's written instructions or manuals provided to Employer.	It is a new clause as proposed by the bidder, which is Not Accepted as this aspect is already covered in NIT clause under Clause 27.8, Section - IV Conditions of Contract (CC) of NIT
292.	Section - IV Conditions of Contract (CC) Clause 28.3	If, for reasons attributable to the Contractor, the Functional Guarantees	If, for reasons attributable to the Contractor, the Functional Guarantees	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		specified in Appendix 8 (Functional Guarantees) to the Contract Agreement are not attained either in whole or in part, but the minimum level of the Functional Guarantees specified in Appendix 8 (Functional Guarantees) to the Contract Agreement is met, the Contractor shall, at the Employer's option, either (a) make such changes, modifications and/or additions to the Facilities or any part thereof that are necessary to attain the Functional Guarantees at its cost and expense within a mutually agreed time and shall request the Employer to repeat the Guarantee Test. , or (b) pay liquidated damages to the Employer in respect of the failure to meet the Functional Guarantees in accordance with the provisions in Appendix 8 (Functional Guarantees) to the Contract Agreement.	specified in Appendix 8 (Functional Guarantees) to the Contract Agreement are not attained either in whole or in part, but the minimum level of the Functional Guarantees specified in Appendix 8 (Functional Guarantees) to the Contract Agreement is met, the Contractor shall, at the Employer's option, either (a) make such changes, modifications and/or additions to the Facilities or any part thereof that are necessary to attain the Functional Guarantees at its cost and expense within a mutually agreed time and shall request the Employer to repeat the Guarantee Test. , or (b) pay liquidated damages to the Employer in respect of the failure to meet the Functional Guarantees in accordance with the provisions in Appendix 8 (Functional Guarantees) to the Contract Agreement.	
293.	Section - IV Conditions of Contract (CC) Clause 28.4	In case the Employer exercises its option to accept the equipment after levy of liquidated damages, the payment of liquidated damages under CC sub clause 28.3, upto the limitation of liability specified in the Appendix-8 (Functional Guarantees) to the Contract Agreement, shall completely satisfy the Contractor's guarantees under CC Sub clause 28.3, and the Contractor shall have not further liability whatsoever to the Employer in respect thereof. Upon the payment of such liquidated damages by the Contractor, the Project	~~In case the Employer exercises its option to accept the equipment after levy of liquidated damages, the payment of liquidated damages under CC sub clause 28.3, upto the limitation of liability specified in the Appendix-8 (Functional Guarantees) to the Contract Agreement, shall completely satisfy the Contractor's guarantees under CC Sub clause 28.3, and the Contractor shall have not further liability whatsoever to the Employer in respect thereof. Upon the payment of such liquidated damages by the Contractor, the Project Manager shall issue the Operational Acceptance~~	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Manager shall issue the Operational Acceptance Certificate for the Facilities or any part thereof in respect of which the liquidated damages have been so paid.	~~Certificate for the Facilities or any part thereof in respect of which the liquidated damages have been so paid.~~	
294.	Section - IV Conditions of Contract (CC) Clause 28.5.1	The bidder shall guarantee that the equipment offered shall meet the rating and performance requirements stipulated for various equipment covered in this specification. The bidder shall also furnish a declaration in the manner prescribed and included in the relevant schedule of Bid Form & Price Schedules for guarantees, which shall attract levy of liquidated damages for non-performance.	The bidder shall guarantee that the equipment offered shall meet the rating and performance requirements stipulated for various equipment covered in this specification. The bidder shall also furnish a declaration in the manner prescribed and included in the relevant schedule of Bid Form & Price Schedules for guarantees, ~~which shall attract levy of liquidated damages for non-performance.~~	As per NIT
295.	Section - IV Conditions of Contract (CC) Clause 29.1	The Contractor shall, subject to the Employer's compliance with CC Sub Clause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of : (a) the installation of the Facilities by the	The Contractor shall, subject to the Employer's compliance with CC Sub Clause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of use of materials and/or designs provided by the Contractor. ~~:- (a) the installation of the Facilities~~	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country. Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.	~~by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country.~~ ~~Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.~~ Each party will maintain all right, title and interest in any intellectual property conceived or developed prior to performance of this Contract or outside of this Contract.	
296.	Section - IV Conditions of Contract (CC) Clause 30 30. Limitation of Liability	30.1 Except in cases of criminal negligence or willful misconduct, (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and	30. Limitation of Liability 30.1 Except in cases of criminal negligence or willful misconduct, (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		(b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement .	(b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the ~~cost of repairing or replacing defective equipment, or to any~~ obligation of the Contractor to indemnify the Employer with respect to patent infringement in accordance with Clause 29 of this Contract.	
297.	Section - IV Conditions of Contract (CC) Clause 33.1	Subject to CC Sub-Clause 33.3, the Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property (other than the Facilities whether accepted or not), arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.	Subject to CC Sub-Clause 33.3, the Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property (other than the Facilities whether accepted or not), arising in connection with Contractor's performance under this Contract ~~the supply and installation of the Facilities~~ and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.	As per NIT
298.	Section - IV Conditions			As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
	of Contract (CC) Clause 33.3	The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Employer, other than the Facilities not yet taken over that is caused by fire, explosion or any other perils, in excess of the amount recoverable from insurances procured under CC Clause 34 (Insurance), provided that such fire, explosion or other perils were not caused by any act or failure of the Contractor.	The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Employer, other than the Facilities not yet taken over, caused due to the acts or omissions of the Contractor, that is caused by fire, explosion or any other perils, in excess of the amount recoverable from insurances procured under CC Clause 34 (Insurance), provided that such fire, explosion or other perils were not caused by any act or failure of the Contractor.	
299.	Section - IV Conditions of Contract (CC) Clause 35.3	If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in CC Sub-Clause 35.1, the Time for Completion shall be extended in accordance with CC Clause 40 (Extension of Time for Completion).	If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in CC Sub-Clause 35.1, the Time for Completion shall be extended in accordance with CC Clause 40 (Extension of Time for Completion), and the Contractor shall not be liable for any delay arising from such physical conditions or artificial obstructions.	As per NIT
300.	Section - IV Conditions of Contract (CC) Clause 36.1	If, after the date twenty-eight (28) days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any	If, after the date twenty-eight (28) days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any change in interpretation or	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. However, these adjustments would be restricted to direct transactions between the Employer and the Contractor and not on procurement of raw materials, intermediary components etc. by the Contractor. Further, no adjustment of the Contract Price shall be made on account of variation in deemed export benefits. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with the Appendix 2 to the Contract Agreement	application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. However, these adjustments would be restricted to direct transactions between the Employer and the Contractor and not on ~~procurement of raw materials, intermediary components etc. by the Contractor.~~ Further, no adjustment of the Contract Price shall be made on account of variation in deemed export benefits. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with the Appendix 2 to the Contract Agreement	
301.	Section - IV Conditions of Contract (CC) Clause 41.1	The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be	The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		suspended, the effective date of the suspension and the reasons thereof. The Contractor shall thereupon suspend performance of such obligation (except those obligations necessary for the care or preservation of the Facilities) until ordered in writing to resume such performance by the Project Manager. If, by virtue of a suspension order given by the Project Manager, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Project Manager requiring that the Employer shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with CC Clause 39 (Change in the Facilities), excluding the performance of the suspended obligations from the Contract. If the Employer fails to do so within such period, the Contractor may, by a further notice to the Project Manager, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part in accordance with CC Clause 39 (Change in the Facilities) or, where it affects the whole of the Facilities, as	suspended, the effective date of the suspension and the reasons thereof. The Contractor shall thereupon suspend performance of such obligation (except those obligations necessary for the care or preservation of the Facilities) until ordered in writing to resume such performance by the Project Manager. If, by virtue of a suspension order given by the Project Manager, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Project Manager requiring that the Employer shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with CC Clause 39 (Change in the Facilities), excluding the performance of the suspended obligations from the Contract. If the Employer fails to do so within such period, the Contractor may, by a further notice to the Project Manager, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part in accordance with CC Clause 39 (Change in the Facilities) or, where it affects the whole of the Facilities, as termination of the Contract under CC	

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		termination of the Contract under CC Sub-Clause 42.1 (Termination for Employer's Convenience).	Sub-Clause 42.1 (Termination for Employer's Convenience). For the avoidance of doubt, in the event of any suspension, the Employer shall remain liable to pay the Contractor for all work performed up to and during the suspension period, together with any additional costs incurred by the Contractor as a consequence of such suspension.	
302.	Section - IV Conditions of Contract (CC) Clause 42.2.6	If the Employer completes the Facilities, the cost of completing the Facilities by the Employer shall be determined. If the sum that the Contractor is entitled to be paid, pursuant to CC Sub Clause 42.2.5, plus the reasonable costs incurred by the Employer in completing the Facilities, exceeds the Contract Price, the Contractor shall be liable for such excess.	If the Employer completes the Facilities, the cost of completing the Facilities by the Employer shall be determined at actuals, as incurred. If the sum that the Contractor is entitled to be paid, pursuant to CC Sub Clause 42.2.5, plus the reasonable costs incurred by the Employer in completing the Facilities, exceeds the Contract Price, the Contractor shall be liable for such excess.	As per NIT
303.	General		As per ITB Clause 1.2.2 and PPP-MII/DPIIT latest amendments, kindly confirm whether Taikai and NHVS for GIS and TBEA for Transformer/Reactor shall be considered eligible, provided they qualify as Class-I Local Suppliers and meet all tender QR requirements?	As per Qualifying Requirements (QR) stipulated in the NIT and in accordance with the latest applicable Govt. guidelines.
304.	General		Since no dedicated BOQ item exists for dismantling of existing HTLS conductor, kindly confirm the estimated quantity, disposal/handling-over requirements, and the	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			applicable payment mechanism for this scope.	
305.	General		Considering the current market volatility, can DTL consider PV applicability for HT/LT cables, conductors, structural steel and earthing materials?	As per NIT
306.	General		For LA, CVT, WT, BPI and all outdoor bushings, should we consider 25 mm/kV as per GTR Clause 7 or 31 mm/kV as specified elsewhere in the technical specifications?	As per Technical Specifications/NIT.
307.	General		Please confirm that the Lightning Arresters (LA) under this project shall be considered as AIS-type outdoor equipment and not GIS-integrated arresters	As per NIT
308.	General		please confirm that the mandatory spare scope is limited to the spare list provided in the tender and BPS only, and no additional mandatory spares are required?	As per NIT
309.	General		Is PEB acceptable for GIS Hall, Store, Pump House, Security Building and other auxiliary buildings, with only Control and Administrative Buildings being RCC?	As per NIT
310.	General		We understand that sufficient space within the available battery limits/layout shall be provided to the contractor during project execution for establishment of site offices, stores, fabrication/storage yard,	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			construction facilities, labour camp and related temporary facilities. Kindly confirm.	
311.	General		Necessary support at the local station end shall be available for PMU-PDC integration. Kindly confirm whether integration activities at SLDC/RLDC are excluded from EPC contractor scope.	As Per NIT
312.	General		Kindly provide the designated disposal location and applicable disposal requirements for excavated earth, demolition debris, structural scrap and other project-related waste. Further, please clarify responsibility for obtaining statutory approvals, if any, required for disposal.	As per NIT
313.	General		Considering the current market volatility, can DTL consider PV applicability for HT/LT cables, conductors, structural steel and earthing materials?	As per NIT
314.	General		CT ratios, cores, burden, accuracy class and protection/metering requirements for 220 kV and 66 kV GIS bays are not clearly available. Kindly provide complete CT schedules for all bays.	As per NIT
315.	General		Kindly provide editable AutoCAD GA/layout drawings with dimensions for accurate GIS building, GIB routing and civil planning.	As per NIT
316.	General			As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
			Please confirm the cable size and number of runs to be terminated at 220 kV / 66 kV GIS transformer and feeder bays.	
317.	General		Kindly clarify the exact scope and quantity of mandatory GIS spares against GIS, CB, CT, VT, Isolator and Surge Arrester line items specified in BPS.	As per NIT
318.	General		Kindly provide the existing earthing layout and confirm the philosophy for integration of the new GIS earthing system with the existing station earth grid.	As per NIT
319.	Volume I Sec-VI Forms and Procedures (F&P) Form No. 18	Proforma of joint undertaking by the collaborator/ parent company/ group company/ subsidiary company/ principal/ sister concern alongwith the bidder/manufacturer	We understand that 1. Joint Undertaking only to be furnished for 400 kV GIS. 2. A bidder can submit multiple Joint undertaking with different GIS manufacturers who are not directly bidding. 3. For 220 kV and 66 kV GIS, a bidder can propose any make for 220 & 66 kV post award during drg submission. Kindly Confirm.	As per NIT
320.	Volume- I, Section-I, Invitation for Bids		We presume that 1% BOCW cess is applicable only for Installation and Civil portion and not applicable for the supply and Freight portion. Kindly confirm.	As Per NIT
321.	Volume- I, Section-IV, Conditions of Contract Clause no:7.3, Scope of facilities	In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts required for the operation and	We request you to reduce the above period from 15 years to 10 years. In addition to this, we request you to kindly accept that contractor shall	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		maintenance of the Facilities for the period specified in the CC. However, the identity, specifications and quantities of such spare parts and the terms and conditions relating to the supply thereof are to be agreed between the Employer and the Contractor, and the price of such spare parts shall be that given in Price Schedules, which shall be added to the Contract Price. The price of such spare parts shall include the purchase price thereof and other costs and expenses (including the Contractor's fees) relating to the supply of spare parts. The Contractor shall ensure the availability of spare parts for the supplied items for a minimum period of fifteen (15) years from operational acceptance by the Employer	only supply such spares at the prices indicated in the price schedule whereas any repair, replacement or installation shall not be in the scope of contractor.	
322.	Volume- I, Section-IV, Conditions of Contract Clause no:26.2, Completion of facilities	If the Contractor fails to comply with the Time for Completion in accordance with Clause CC 26 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to 0.05% (zero point zero five percent) of the Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty, without prejudice to the	LD should be levied only on the value of unexecuted works not on whole scope of work. Request to change the clause.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		Employer's other remedies under the Contract, for each day which shall elapse between the relevant Time for Completion pursuant to Clause 26.1 above and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of five percent (5%) of Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed).		
323.	Volume- I, Section-IV, Conditions of Contract Clause No. 27.2 , Defect Liability Period	The Defect Liability Period shall 60 months for major equipment such as Gas Insulated Switchgear (GIS) bay including Gas insulated bus duct (GIB), Power/Auto Transformers, Reactors, all AIS bay equipment, Mono Pole/Lattice towers and Power cables including its end terminations & straight through joints (of 400KV, 220KV, 66KV, 33KV levels) and 18 months for all other items from the date of Commissioning/Completion of the facilities.	As per the prevailing practices of various power utilities, we request you to consider "Defect Liability Period" of 1 year from the date of Operational Acceptance of the facilities instead of 5 years.	As per NIT
324.	Volume- I, Section-IV, Conditions of Contract Clause No. 13 Performance security	The Bidder shall submit performance security @ 10% of the total contract price for the performance of contract within twenty eight days (28 days) from the issuance of notifications of award. Performance security shall be valid up to defect liability period but initially for 12 Months from the date of taking over/operational	As per this clause, the Performance Security BG shall be valid for 5 Years from the date of Operational Acceptance. As per the prevailing practices of various power utilities i.e PGCIL, we request you to accept Performance Security BG with a total validity of only 12 Months from the date of Operational Acceptance.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		acceptance. This performance guarantee shall be renewed periodically every year upto the end of defect liability period.		
325.	Volume- I, Section-VI, Forms & Procedures Appendix I , Terms & Procedures of payment	Supply & Erection Advance : 10% as Interest bearing Advance. (Interest Rate is SBI MCLR)	We request you to consider the following payment terms: Supply & Erection Advance : 10% as Interest-free Initial Advance	As per NIT
326.	Volume- I, Section-VI, Forms & Procedures Appendix I , Terms & Procedures of payment		We understand that 100% GST will be paid to contractor along with Stage I payment for Supply & Erection against submission of invoice. Kindly confirm our understanding as correct	As per NIT
327.	Volume- I, Section-IV, Conditions of Contract Clause no 14, Taxes and Duties		Kindly confirm that in case of any increase in taxes as a result of change in law, beyond the period of the original date of completion of work, for delay reasons not attributable to the bidder, shall also be paid by DTL .	As per NIT
328.	Volume- I, Section-IV, Conditions of Contract Clause no 14.5 & 14.9, Taxes and Duties	Employer will not bear any upward variation in GST rate due to change/disputes in classification relating to HSN/SAC code as quoted by the bidder at a later stage." & also "Employer has indicated HSN/SAC code and rate of GST against each item in the price schedule. It shall entirely be the responsibility of the bidder to check the HSN/SAC code and rate of GST given against each item. The bidder may either confirm the HSN and rate of GST or if the bidder opts to classify the item in	We would like to highlight that HSN code is varying from vendor to vendor for each equipment. Hence we shall provide complete HSN code during the execution of contract. However GST rate & Group code for all the equipment is quoted in the respective column of the price schedule, which shall be considered for evaluation. Kindly Confirm	HSN/SAC code shall be in compliance with Un priced schedule as per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		question under a different HSN/ SAC code or opts to indicate a different rate of GST, bidder may indicate the same in the columns provid... against clause 14.9		
329.	Volume- I, Section-IV, Conditions of Contract Clause No. 27.3, Performance security	The contractor's obligations under this CC clause shall not apply to (a) any materials that are supplied by the employer, are normally consumed in operation, or have a normal life shorter than the DLP period stated herein. (b) any design, specifications or other data designed, supplied or specified by or on behalf of the employer or any matters for which the contractor has disclaimed responsibility herein. (c) any other materials supplied or any other work executed by or on behalf of the Employer, except for the work executed by the employer	As O&M is in employer scope, we request for addition of following point towards exclusion in contractor's obligation on account of "Improper Operation and maintenance of equipment as specified in equipment manuals".	As per NIT
330.	Volume- I, Section-IV, Conditions of Contract Clause No. 27.8, Performance security	Upon correction of the defects in the Facilities or any part thereof by repair/ replacement, such repair/replacement shall have the Defect Liability Period extended by a period of twenty-four (24) months for major equipment as mentioned at 27.2 above and 6 months for all other items from the time such replacement/repair of the facilities or any part thereof, subject to the condition that the overall period of Defect Liability	As per the prevailing practices of various power utilities i.e. PGCIL, upon correction of defects in the facilities or any part thereof by repair/replacement, the over all DLP of the project remains same. Request your acceptance.	As per NIT

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
		shall not be less than Sixty (60) months and more than Eighty-four (84) months for major equipment as mentioned at 27.2 above and shall not be less than eighteen (18) months and more than twenty-four (24) months for all other items from the date of issuance of respective Commissioning/ Completion		
331.	Volume- I, Section-IV, Conditions of Contract	Clause no 39.3, Changes Originating from Contractor	As per referred clause " Percentage for the Change Proposal under this Clause shall be limited to fifteen (15) percent". Hope any change proposal shall be within the project duration only. Kindly confirm our understanding is correct.	As per NIT
332.	Volume- I, Section- Forms & Procedures Appendix 3 ,	Insurance Requirements	As per the prevailing practices of various power utilities i.e. PGCIL, NTPC etc, if their is delay in providing the employer inputs / shutdowns / incoming lines etc. the charges towards the extended period of insurance and contractor overheads shall be reimbursed to Contractor. We request for addition of said clause.	As per NIT
333.	General		We hope that sub-vendors approved by PGCIL/NTPC would also be acceptable to M/S DTL. Kindly confirm.	Clause No 4,Section - V: SPECIAL CONDITIONS OF CONTRACT (SCC) of Vol. I of NIT.

S. No.	Reference NIT Clause/ Description	NIT / Tender Clause	Bidders Query	DTL's Reply
334.	Site Visit		As per site visit, we understand that the plot is already purchased by DTL and in complete possession. Hope our understanding is correct. We request you to kindly provide the Autocad drawings of Plot Coordinates.	Available drawings are already provided in the NIT. Further, for better understanding, bidder may visit the site
335.	General		Request you to kindly confirm the source of funds for the project.	Not Applicable
336.	Qualification Requirement - Route 4		As per Route-4, GIS vendor has to provide BG of 2% of GIS portion cost (Supply, F&I, Installation, taxes), which is addition to 10% contract PBG to be submitted by EPC. As this is additional cost burden to Bid for Route-4 as compared to Route-1, we request for removal of same.	As per NIT

A new **Clause No. 7** has been incorporated under **Section-V: Special Conditions of Contract (SCC), Volume-I** of the NIT, as detailed below:

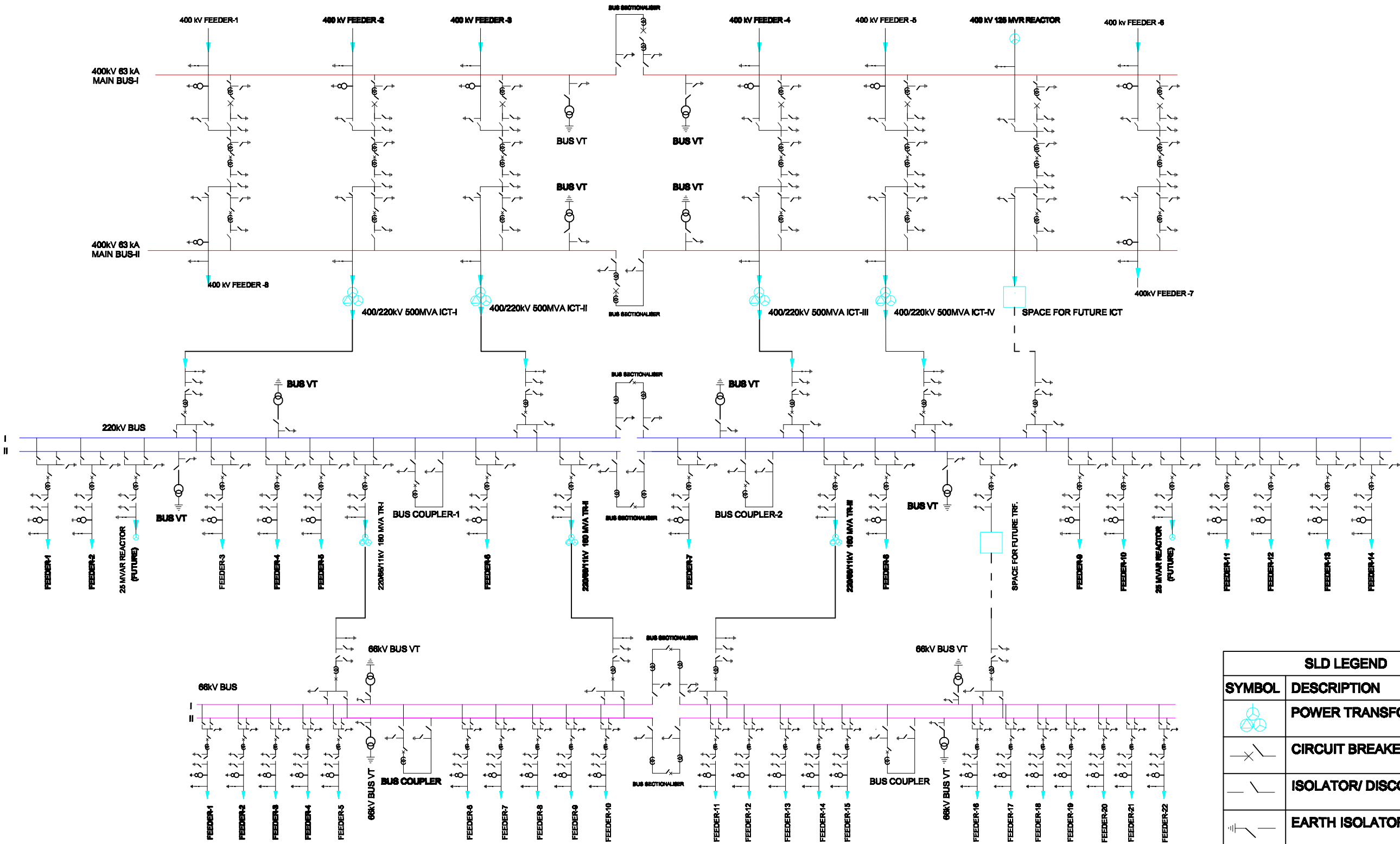
S. No.	CC Clause Ref. No	Amendment/Supplement to CC
7	New Clause	Environment (Construction and Demolition) Waste Management Rules, 2025 issued vide Gazette Notification dt. 02.04.2025 and associated guidelines issued by Delhi Pollution Control Committee Government of NCT of Delhi & Ministry of Housing and Urban Affairs Government of India issued from time to time shall be followed.

Annexure-A

Specification for Substation Boundary Wall

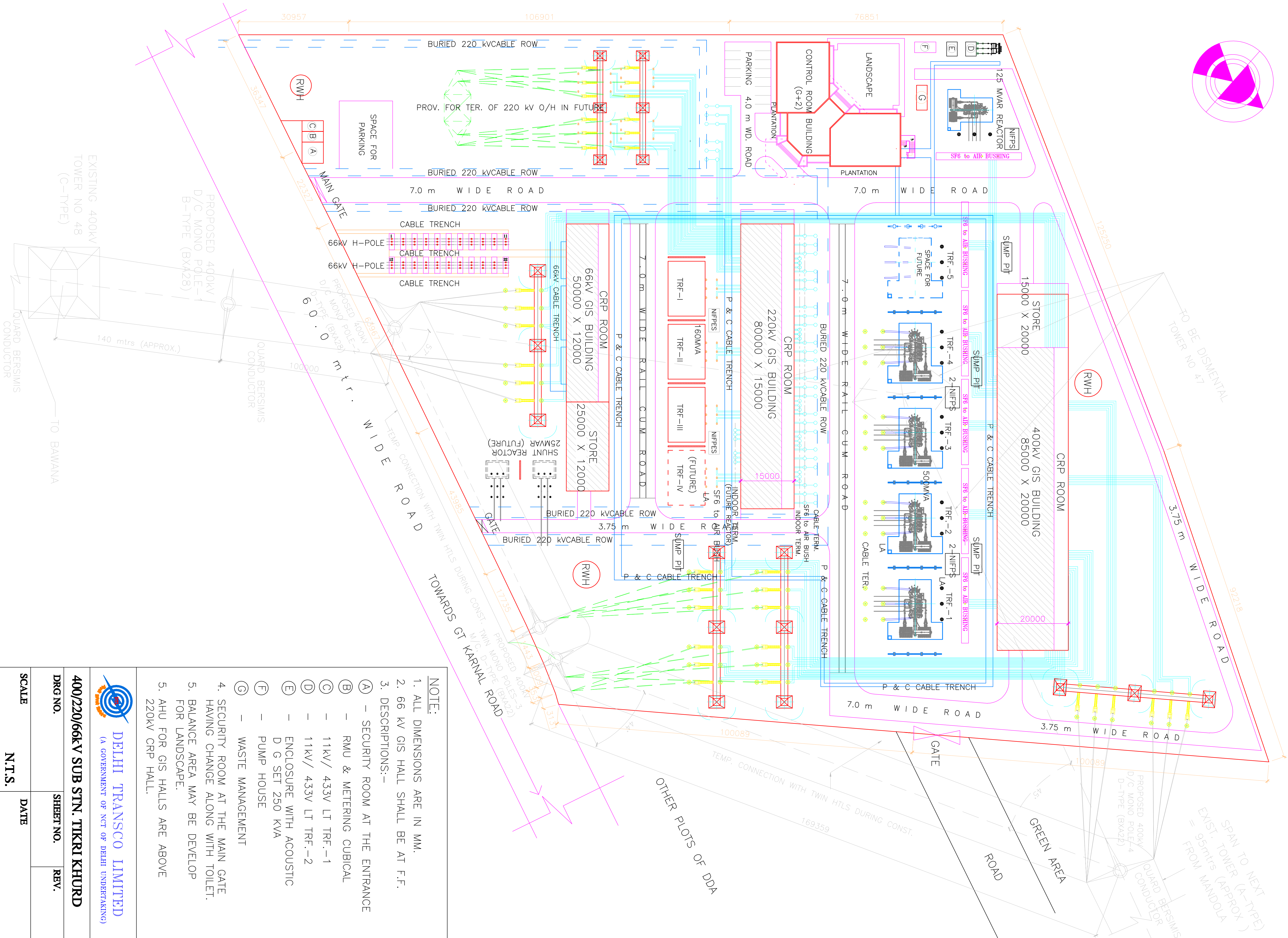
1. The scope is to cover design, preparation of drawings for boundary wall, MS gate along with concertina coil on boundary wall and security room at entrance gate.
2. The height of boundary wall shall be 2.7M from FGL and 610mm dia concertina coil over boundary wall fixed with arrangement of Y shape angle grouted on RCC columns.
3. The boundary wall structure shall be RCC (M-25 grade) frame with 23cm brick filling in panels in cement mortar 1:4 (1 cement : 4 coarse sand).
4. For design of boundary wall, security room relevant IS code shall be followed.
5. The foundation of boundary wall and security room shall be designed as per site requirement.
6. The boundary wall and security room shall be finished with 12mm/15mm cement plaster mix 1:4 and acrylic smooth exterior paint on base of white cement base putty minimum thickness 1mm. Painting with synthetic enamel paint on steel work.

TENTATIVE SINGLE LINE DIAGRAM (SLD) OF 400/220/66 kV GIS S/STN. AT TIKRI KHURD



SLD LEGEND	
SYMBOL	DESCRIPTION
	POWER TRANSFORMER
	CIRCUIT BREAKER
	ISOLATOR/ DISCONNECTOR
	EARTH ISOLATOR/ SWITCH
	VOLTAGE TRANSFORMER
	CURRENT TRANSFORMER
	SURGE ARRESTOR
	SHUNT REACTOR

NOTE:-
THE SLD IS TENTATIVE AND SHALL BE FINILISED AT DETAIL ENGINEERING STAGE AS PER TECHNICAL SPECIFICATION.



TENTATIVE LAYOUT OF 400/220/66 kV GIS SUB STATION AT TIKRI KHURD

NOTE: 1. ALL DIMENSIONS ARE IN MM. 2. 66 kV GIS HALL SHALL BE AT F.F. 3. DESCRIPTIONS:- (A) – SECURITY ROOM AT THE ENTRANCE (B) – RMU & METERING CUBICAL (C) – 11kV/ 433V LT TRF.-1 (D) – 11kV/ 433V LT TRF.-2 (E) – ENCLOSURE WITH ACOUSTIC D G SET 250 KVA (F) – PUMP HOUSE (G) – WASTE MANAGEMENT 4. SECURITY ROOM AT THE MAIN GATE HAVING CHANGE ALONG WITH TOILET. 5. BALANCE AREA MAY BE DEVELOP FOR LANDSCAPE. 5. AHU FOR GIS HALLS ARE ABOVE 220kV CRP HALL.		
DELHI TRANSCO LIMITED (A GOVERNMENT OF NCT OF DELHI UNDERTAKING)		
400/220/66kV SUB STN. TIKRI KHURD		
DRG NO.	SHEET NO.	REV.
SCALE	N.T.S.	DATE
DRAWN BY DEEPAK TYAGI AM (ARCHITECT)	CHECKED BY	