



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

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CORRIGENDUM - 02 TO NIT NO-89158

Dated 17-03-2025

Subject: Corrigendum-02 to Tender enquiry for Pre-Bid Tie up with the GIS OEM for Supply & Services of 765KV GIS for POWERGRID's Substation Package SS-103T (Tuticorin) Sub-Station Tender / Project.

Project : POWERGRID's Substation Package SS-103T (Tuticorin)
Equipment / Item : Supply & Services of 765kV GIS & Its associated equipment
Enquiry No/Date : 61Q2500520 Dated 27-02-2025
BHEL NIT NO : 89158
Original Tender due date : 10-03-2025
Extended Due date : 18-03-2025

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for-

1. Issuing the Technical corrigendum-01 (enclosed),
2. Change in commercial term (enclosed) &
3. Extension of the due date upto 18-03-2025.

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 **2025_BHEL_45684_1**.

Thanking you

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

Gaurav Agarwal
BHEL TBG, NOIDA

Ref. No. **Technical Corrigendum-01**

Project: **Clarifications for of Pre-Bid Tie up for,
765kV GIS Substation Package SS-103T for Establishment of 765 kV Tuticorin (GH) (GIS) S/S associated with
“Transmission System for proposed Green Hydrogen / Green Ammonia projects in Tuticorin area” through TBCB route
prior to RfP bid submission by POWERGRID to BPC.**

Date: **17.03.2025**

Sl. No.	Volume/ Section/ Clause	Volume/ Section/ Clause as Existing	Volume/ Section/ Clause as Amended/ Added in Technical Corrigendum-01
1	Technical Specification	Technical specification	Please refer clarification-1 & 2 attached herewith, which shall be read in conjunction with technical specification.

Note: 1. The changes/ revision are marked/ highlighted in yellow.
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.

Clarification No.-1 dated 28.02.2025 to the Bidding Documents of Pre-Bid Tie up for 765kV GIS Substation Package SS-103T for Establishment of 765 kV Tuticorin (GH) (GIS) S/S associated with "Transmission System for proposed Green Hydrogen / Green Ammonia projects in Tuticorin area" through TBCB route prior to RFP bid submission by POWERGRID to BPC.

Specification No. CC/T/W-GIS/DOM/A01/25/01089

Sl. No.	Ref./Clause No.	Description / Existing Clause	Bidder's Queries/Requests	POWERGRID's Clarification
1	Volume-I, Section-IV, GCC 34.1	Extension of Time	Please include the below mentioned provision in stated clause: (f) Any delay caused due to delay/failure in fulfilment of Employer's obligations . The contractor is entitled for extension of time along with reimbursement of additional cost incurred.	The existing provisions of the Bidding Documents shall remain unchanged.
2	Volume-I, Section-VI, Sample Forms and Procedures, Appendix-1 to Contract Agreement	TERMS AND PROCEDURES OF PAYMENT	Please rephrase this clause as under: In case of delay in testing and commissioning & issuance of taking over certificate by Employer beyond One (1) month from the date of receipt of equipment at site, the last 10% of Ex-Works price of respective equipment shall be paid after issuance of a certificate by Employer's representative that the equipment have been received in good condition and on submission of a bank guarantee of equivalent amount, which shall be kept valid initially for a period of twelve (12) months or until three (3) months after the expected date of commissioning (in case it is possible to anticipate the same), whichever is earlier, provided all other conditions as per above are complied with by the Contractor. If the commissioning does not take place within the validity period of BG, the validity of BG shall be extended from time to time. The bank guarantee shall, however, be released within one month of successful commissioning of the respective equipment by the Employer."	The existing provisions of the Bidding Documents shall remain unchanged.
3	Volume-I, Section-VI, Sample Forms and Procedures, Appendix-1 to Contract Agreement	TERMS AND PROCEDURES OF PAYMENT	Please include provision of interest on delayed payments by Employer @ SBI PLR for the prevailing year.	The existing provisions of the Bidding Documents same remain unchanged.
4	Volume-I, Section-IV, GCC 32.1	Force Majeure	We understand that Epidemics/Pandemic such as Novel Coronavirus (e.g. COVID 19) etc., Terrorism, Bandhs, Infrastructure failures and Shortage of certain components required for the performance of the scope of work are covered under force majeure. Please Confirm.	The provisions of GCC Clause 32, read in conjunction with SCC, w.r.t. Force Majeure are amply clear.
5	Volume-I, Section-IV, GCC 31.1	Change in Laws and Regulations	We understand that, If any new law or regulation imposed social responsibility on Contractor which hamper the progress of work with financial burden out of Contract, the same shall be borne by Employer. Please Confirm.	The existing provisions of GCC Clause 31, read in conjunction with SCC, of the Bidding Documents are amply clear.
6	General	TCS	W.e.f. 01/10/2020, TCS is implemented . The seller is required to collect the TCS from buyer TCS @ .1% of sales consideration on sale of goods when Seller receives amount Rs 50 lakh from any single buyer in current financial year. In current tender, bidder will have to collect TCS on sale of goods @ 0.1% on value of goods excluding GST. Bidder will issue certificate to client and the same will be subject to credit to client However on service invoice no TCS will be applicable. Please confirm our understanding.	The provisions of GCC Clause 10 regarding Taxes & Duties, read in conjunction with SCC, of the Bidding Documents are amply clear.
7	Volume-I, Section-IV, GCC 39	Arbitration	We request for settlement of disputes arising out of contract or in connection with the contract , to be settled with panel of three arbitrators, one from each party and a presiding arbitrator. Also the claim about shall not be the basis of deciding the number of arbitrators. Please confirm.	The existing provisions of the Bidding Documents shall remain unchanged.
8	Volume-I, Section-VI, Sample Forms and Procedures, Appendix-2 to Contract Agreement	Price Adjustment	We request you to kindly incorporate the Price Adjustment for GIS, Circuit Breaker, Instrument Transformer, Isolator, Surge Arrestor, BPL, Power & Control Cables, Earthing Materials, IPS Tube, Conductor, Hardware, Clamps & Connectors, cement, TMT bars, Structure steel and Concrete. Please confirm.	The existing provisions of the Bidding Documents shall remain unchanged.

9	Volume-I, Section-IV, GCC 33	GCC/SCC Clause 33, Section-IV & Section-V, Vol-I of Bidding Documents	As per referred clause " Percentage for the Change Proposal under this Clause shall be limited to Fifteen (15) percent". Hope the current change proposal is limited to the project duration. Kindly confirm our understanding.	The existing provisions regarding change proposal shall be applicable till closure of the contract.
10	General	JDU requirement of GIS	We understand that bidder who are qualifying through the Qualification requirement clause No. 1.4 (iii), ROUTE-4, OF ANNEXURE-A (BDS) can obtain JDU from multiple GIS manufacturers and similarly, eligible 765kV KV GIS manufacturer can support to multiple bidders, during execution stage bidder can finalize GIS manufacturer to meeting their timeline and suitability. Kindly confirm.	Please refer provisions of Annexure-A (BDS) which are amply clear.
11	General	JDU requirement of GIS	We understand that bidder can submit the 2% additional PBG requirement against 765KV GIS on behalf of manufacturer. Kindly confirm.	Please refer provisions of Annexure-A (BDS) which are amply clear.
12	General	JDU requirement of GIS	We understand that during execution stage bidder can propose and obtain JDU from the GIS manufacturer who is meeting the qualification requirement stipulated in clause No. 1.4 (iii), ROUTE-4, OF ANNEXURE-A (BDS).Kindly confirm.	Please refer provisions of Annexure-A (BDS) which are amply clear.
13	Volume-I, Section-VI, Sample Forms and Procedures, Appendix-1 to Contract Agreement, Cl. 2.1 (Method of payment)	The Employer shall make payments promptly within thirty (30) days of submission of an invoice/claim by the Contractor, complete in all respects and supported by the requisite documents and fulfillment of stipulated conditions, if any. All the payment shall be released to the Contractor directly.	For all progressive payments, POWERGRID is requested to please consider mode of payment as site Letter of credit also.	The provisions of Appendix-1 (TERMS AND PROCEDURES OF PAYMENT), Section-VI of Vol.-I are amply clear and shall prevail.
14	Volume-I, Section-VI, Sample Forms and Procedures, Appendix-3 to Contract Agreement, Cl. A)(b) (III) (Insurance add-on to EAR policy)	(III) The following add-on covers shall also be taken by the Contractor: i) Earthquake ii) Terrorism iii) Escalation cost (approximately @10% of sum insured on annual basis) iv) Extended Maintenance cover for Defect Liability Period v) Design Defect vi) Other add-on covers viz., 50-50 clause, 72 hours clause, loss minimization clause, waiver of subrogation clause (for projects of more than Rs.100 crores, cover for offsite storage/fabrication (over Rs.100 crores).	Please note that as per attached extract of treaty agreed with Insurers & Reinsurer, Extended maintenance cover can only be provided for maximum 24 months in EAR policy. We have also taken up with all major insurers, but none of the them are ready to offer add-on coverage in EAR policy for more than 24 months. Hence, EAR Insurance policy can get issued with maximum 24 months Extended maintenance cover only. It is hence requested to please review and amend Extended Maintenance cover for Defect Liability Period under EAR policy to maximum of 24 months.	The provisions of Appendix-3 (INSURANCE REQUIREMENTS), read in conjunction with GCC & SCC, of the Bidding Documents shall prevail.
15	Volume-I, Section-VI, Sample Forms and Procedures, FORM No. 18 FORM OF SAFETY PLAN TO BE SUBMITTED BY THE CONTRACTOR WITHIN THIRTY DAYS OF AWARD OF CONTRACT	6.THAT the Contractor The Safety Steward/Supervisor from Contractor's own roll having thorough knowledge about the works would be deployed so as to percolate safety instructions upto the grass root level in healthy spirits. Contractor has to ensure close supervision while executing critical locations of transmission lines / sub stations and ensures that all safety instructions are in place and are being followed.	As per our present practices, the Safety Officer/Steward/Supervisor is deployed through sub-contractor (not on bidder roll) meeting the qualification and experience requirement as per BOCW Act. We request POWERGRID not to insist on requirement of Safety Steward/Supervisor from Contractor's own roll and accept Safety Officer/Steward/Supervisor through sub-contractor also.	The existing provisions of the Bidding Documents shall remain unchanged.

16	Volume-I, Section-VI, Sample Forms and Procedures, FORM No. 18 FORM OF SAFETY PLAN TO BE SUBMITTED BY THE CONTRACTOR WITHIN THIRTY DAYS OF AWARD OF CONTRACT	12.....Such Safety Officers shall be assisted by suitable and adequate Safety Supervisors and Safety Stewards. The Safety Officer will report directly to his head of organization and not the Project Manager of Contractor He shall also not be assigned any other work except the work of safety. The curriculum vitae of such person shall be got cleared from POWERGRID Project Manager / Construction staff.	Considering huge scale of operation and diversified areas catered by bidder (not limiting to Transmission projects), It is not practicable that the Safety Officer will report to Head of organization. Accordingly, we propose to accpr reporting of safety officer to Head of sector instead of Head of Organisation. Kindly confirm acceptance on the above.	The existing provisons of the Bidding Documents shall remain unchanged.
17	Volume-I, Section-VI, Sample Forms and Procedures, FORM No. 18 FORM OF SAFETY PLAN TO BE SUBMITTED BY THE CONTRACTOR WITHIN THIRTY DAYS OF AWARD OF CONTRACT	12.....The Safety Supervisor shall be Bachelor of Science/ diploma in Engineering with 2 years' relevant experience in safety. The qualification of Safety Steward shall be ITI or equivalent with 2 years relevant experience in safety.	As per BOCW Act, there is no specific criteria/requirement regarding qualification and experience for Safety Supervisor/Safety Steward. Although, bidder agrees for experience requirement of 2 years for Safety Supervisor/Safety Steward. Accordingly, Safety Supervisor/Safety Steward will be deployed by bidder through sub-contractor having 2 years experience (without any specific qualification requirement). Kindly confirm acceptance on teh above.	The existing provisons of the Bidding Documents shall remain unchanged.
18	Volume-I, Section-V, SCC 33.2.4.1	For New items: - a)If possible, the rate shall be arrived at on the basis of similar item available in the contract. b)In case similar item is not available in the Contract, the rate shall be arrived taking into consideration the following documents in the given order of preference: - i)POWERGRID SOR (with suitable adjustment in regard to the Price Level) ii)Analysis of Delhi Schedule of Rates issued by CPWD and considering the declared factor for adjustment. iii)Based on the rates of that item available in other Contracts/LOAs: For this purpose, average of rates of that item available in other awards placed during last 02 years for the same region, after suitable extrapolation, wherever required, to bring it to current level and after effecting price adjustment, if any, required on account of mismatch of specifications may be used. iv)Rate(s) established from the lowest budgetary quotation from various manufacturers/suppliers (minimum three nos.) plus 15% to cover Contractor's profit and overhead. The finalization of new rates in certain cases may be based on the combination of more than one of the guidelines described at Para a) & b) above.	The mechanism proposed by POWERGRID (for rate settlement of NEW items) may not be workable during project execution stage due to multiple factors (make of particular equipment, time/scope difference for the SOR reference price, Market condition (Commodity prices, capacity constraint of the vendor, other contingency factor). As aware, for sourcing of items required in a project (not within bidder's manufacturing range), resorts to fully transparent open tendering process (including order placement through GeM) for placement of orders on sub-vendors. Accordingly, In case of the requirement of a NEW item (not part of the original contract), it is proposed that the Purchase Order (derived through the above process) for a particular (NEW) items placed by bidder to form the basis for further negotiation (PO rate + Contractor Overheads + Profit) on mutual agreement basis.	The existing provisons of the Bidding Documents shall remain unchanged.

19	Volume-I, Section-V, SCC 33.2.4.2	<p>For Substitute items:</p> <p>For arriving at the rate for Substitute item, the rate for the Existing item (to be substituted) and Substitute item shall be arrived in the similar manner as stipulated at para GCC 33.2.4.1 b) above.</p> <p>(a) If the arrived rate for the Substitute item so determined is more than the arrived rate of the Existing item (to be substituted), the rate payable to the Contractor for the Substitute item shall be the rate for the Existing item (to be substituted) as per Contract so increased to the extent of difference between the arrived rates of Substitute item and the Existing item (to be substituted).</p> <p>(b) If the arrived rate for the Substitute item so determined is less than the arrived rate of the Existing item (to be substituted), the rate payable to the Contractor for the Substitute item shall be the rate for the Existing item (to be substituted) as per Contract so decreased to the extent of difference between the arrived rates of Substitute item and the Existing item (to be substituted).</p>	<p>The mechanism proposed by POWERGRID (for rate settlement of substitute items) may not be workable during project execution stage due to multiple factors (make of particular equipment, time/scope difference for the SOR reference price, Market condition (Commodity prices, capacity constraint of the vendor, other contingency factor).</p> <p>As aware, for sourcing of items required in a project (not within bidder's manufacturing range), resorts to fully transparent open tendering process (including order placement through GeM) for placement of orders on sub-vendors. Accordingly, In case of the requirement of a Substitute item (not part of the original contract), it is proposed that the Purchase Order (derived through the above process) for a particular (Substitute) items placed by bidder to form the basis for further negotiation (PO rate + Contractor Overheads + Profit) on mutual agreement basis.</p>	The existing provisions of the Bidding Documents shall remain unchanged.
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Clarification No.-2 dated 05.03.2025 to the Bidding Documents of Pre-Bid Tie up for 765kV GIS Substation Package SS-103T for Establishment of 765 kV Tuticorin (GH) (GIS) S/S associated with "Transmission System for proposed Green Hydrogen / Green Ammonia projects in Tuticorin area" through TBCB route prior to RfP bid submission by POWERGRID to BPC.				
Specification No. CC/T/W-GIS/DOM/A01/25/01089				
Sl. No.	Ref./Clause No.	Description / Existing Clause	Bidder's Queries/Requests	POWERGRID's Clarification
1	Volume-II, Section Project	2.0 SCOPE OF WORK	We understand that STATCOMs is not envisaged in our scope of work including AC & DC auxiliary power. Only STATCOMs bay is envisaged in scope of work. Please confirm.	Confirmed.
2	Volume-II, Section Project	Cl. No. 2.2.1 .B iX). The Fire-fighting system including alarm & annunciation panels shall be suitable for complete substation scope i.e., for all present and future 765kV, 400kV bays and STATCOMS as described at Clause 2.1 above.	We understand that fire fighting of STATCOMS is not envisaged in scope of work. Please confirm.	Confirmed.
3	Volume-II, Section Project	Cl. No. 2.2.1 .B iX). The fire alarm & Annunciation panels shall have sufficient capacity to accommodate the alarm/annunciation signals arising from the 400kV and 220kV System.	As per clause no. 2.2, we understand that 220kV system is not in scope of work. Please confirm.	Clause referred in the query is not correct. Bidder to quote as per provisions of bidding document
4	Volume-II, Section Project	Cl No. 2.2.1.B. XV). visual monitoring system for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations.	With reference to respective clause, please provide the criteria/philosophy for estimation of quantity of camera units at substation plot boundaries.	As per Annexure S9 of Specific Requirements Rev.09, no. of cameras and their locations to be decided in such a way that any location covered in the areas mentioned in the referred clause can be scanned.
5	Volume-II, Specific Requirements Rev- 09	Annexure-S11 i) GIS Bus bar Module; VI) Project Specific Requirement: Requirement of End Piece (Interface) module with isolating test link on both side of Bus bar module shall be considered based upon GIS Layout as and when specified under Section-Project.	End Piece Module is not defined in section project. Please clarify	End Piece (Interface) modules with isolating test link for Future extension on one side is envisaged as per Technical specification
6	General	Soil test	Please provide the Soil Resistivity Report for calculation and Estimation of Earthing Materials for our reference. We have not considered stone spreading in future bay area. Kindly confirm our understanding.	1. Soil Resistivity Report :- Soil Investigation is in the scope of Contractor. Please refer Section Project cluse no. 2.2.2.4.i. 2. Confirmed
7	General	Methodology for cables	Please clarify power and control cable required for HVWS system shall be covered under BPS quantity or is part of Fire protection system .	Power and control cable required for HVWS system shall be covered under Fire protection system
8	General	Remote end PLCC Aux. system requirement	Kindly confirm the followings: a. Distance from local stations to remote substation/LDC's. b. We have excluded remote end PLCC equipment power & control cabling .	a. Tuticorin PS-Tuticorin(GH) GIS D/C line is approx. 50km b. Bidder to quote as per provision of bidding document

9	General	PEB Building	Refer to BPS schedule-III, Sl. no. 154, 155, 156, We understand that size of PEB building (GIS hall, LCC/Panel Room & AHU room) may vary based upon GIS manufacturer , with increase in size of building additional cost implication for illumination system, fire fighting, VMS, AC Ventilation, Earthing material will be paid by PGCIL. Kindly confirm.	Bidder to quote as per provision of bidding document
10	General	VMS System	Kindly confirm our understanding as below: We have considered VMS system scope for the present scope of bays only	The cameras shall be supplied to cover present scope areas as per requirement of Technical specification. The System hardware, license etc shall have provision for additional 100% cameras as per provision of Technical specification Section Project Annexure S9
11	General	Illumination System	Illumination System: – Kindly confirm our understanding as below: We have considered outdoor lighting scope for the present scope of bays only. Outdoor illumination required for future bays are excluded from our scope of supply & engineering.	Confirmed.
12	General	Space for Future bay Module	We have considered Line Bay only as per BOQ without considering any provision for future Line reactor. Kindly Confirm our understanding.	Confirmed.
13	General	Telecom system	Please provide the details of remote end FOTE System/Equipment make for line bays.	Details shall be provided during detailed engineering
14	Volume-II, Section Project	Cl. No 2.2.1, B. xxi.	As per respective clause number, we have not considered any repeater station as the same is not indicated in BOQ. Kindly confirm.	Confirmed.
15	General	Spare Module	We have not considered any spare feeder bay module for dia completion as same is not indicated in BOQ. Kindly confirm.	Confirmed.
16	Volume-III, Price schedule	BPS, Sch-1 of sl.no. 79	Refer to BPS, Sch-1 of sl.no. 79, we understand that Carrier Equipment Analog type is acceptable without Speech+Data, kindly confirm.	Bidder to quote as per provision of bidding document
17	Volume-II, Section Project, CRP & SAS	Section project clause 2.2.1, B of vii	We understand that peripheral units (PU's) required for future bays is excluded from bidder scope. In case PU's required for future bays also kindly provide the total no of bays for PU's Consideration. Kindly confirm.	As per cl. 2.2.1 B. vii. Of Section Project, Peripheral units associated with Bus bar protection shall be provided for 765kV bays under present scope. For Future 765kV bays, peripheral units are not envisaged under present scope. However, provision in Central unit shall be provided for connection of future bays peripheral units
18	General	Land Acquisition	Please confirm that the proposed land has already been acquired or not.	Proposed land has not been acquired yet

19	General	Plot boundary coordinates	Please share the reference coordinates of plot boundaries of Substation area.	<p>Since the project is under TBCB route, BPC has provided the tentative coordinates in survey report as mentioned below. However, the identification of Substation site is under process in line with RFP which states that, "Actual location shall not be beyond 3km radius of the location proposed by BPC in survey report." Bidder to quote accordingly.</p> <p>Village: Kulasekaranallur Taluka: Ottapidaram District: Thoothukudi State: Tamil Nadu</p> <p>Corner-1 : Easting 826437.27, Northing 982204.25 Latitude 8°52'25.66"N, Longitude 77°58'3.50"E Corner-2 : Easting 826909.86, Northing 981811.95 Latitude 8°52'12.78"N, Longitude 77°58'18.85"E Corner-3: Easting 827225.31 , Northing 982139.83 Latitude 8°52'23.36"N, Longitude 77°58'29.25"E Corner-4: Easting 826710.70, Northing 982545.94 Latitude 8°52'36.70"N, Longitude 77°58'12.53"E</p>
20	General	Land Development (Cutting / Filling Qty)	Please provide Contour drawing and proposed FGL for estimation of earth work for Land development and foundation depth	<p>Site levelling and contouring is in the scope of bidder. Please refer section project cluse no. 2.2.2.4.i.</p>
21	General	Approach Road	We understand that substation approach from the major state road to the plot main gate is in all weather good condition. There is no requirement of strengthening of the existing approach road, culverts/ bridges, drainage networks etc in order to facilitate transport of heavy equipments, transformers etc. Kindly confirm.	Approach road (if required) from sub-station main gate to nearest metaled road is in scope of contractor.
22	General	M-sand, stone dust and PPC cement	We understand that use of alternate construction materials as m-sand, stone dust and PPC cement will be allowed. Kindly confirm our understanding.	<p>Technical Specification/SFQP documents attached with tender documents are to be referred. Manufacture sand should adhere to the following IS Codes (Latest Revision) for given works.</p> <ol style="list-style-type: none"> 1. Concrete M sand / Sand IS Code : IS 383:2016 2. Brickwork M Sand/ Sand IS Code: IS:2116-1980 3. Plastering M Sand/ Sand IS Code: IS: 1542:1992
23	General	Scope of work for civil amenities	We presume that the quantity mentioned in "Price schedule" is tentative and for any changes in quantity during detailed engineering/execution, Bidder's may ask for quantity amendment. Please confirm.	Confirmed.

24	General	Price schedule/Specification	We understand that in case of any discrepancy between price schedule & specifications, price schedule will govern. Kindly confirm.	Please refer Clause 1.1 -Frequently asked question.(Annexure IV of Section project)
25	General	Tower/ gantry /LM structure/Equipment support structure and its Foundation design	We understand that, the design of Tower/Gantry/equipments support strucutres and its foundations are not in our scope, if yes than please share the factor of safety to be adopted for gantry/eqp str & fdn design. Please confirm.	Please refer section project cl. No. 2.2.2.3.xiv. Please refer TS Section Structure Rev 7 and TS section Civil works Rev 12.
26	General	Reference standard civil & str dwgs for Tower/gantry/LM/equipments.	Please provide the required standard drawings to estimate civil and structural quantities.	Bidder may refer the Tender Drawings. Bidder to quote as per provisions of Tender Document.
27	General	Hinderance Register	Site Hinderance register shall be maintained by us, which shall include the delays due to force majures, natural calmaities and other unforeseen conditions etc. Schedule extension/compensation shall be provided to us for the same accordingly. Please confirm.	All the records shall be maintained and dealt as per provision of Contarct.
28	General	Pile work	we understand that, there is no requirement of pile/pile cap works, if there it is executed in execution stage, that will be treated as extra item. Please confirm.	Pile/Pile cap work is not envisaged currently. However, if required during detailed engineering, the same shall be dealt as per clause 24.24.2 of Ts section civil works Rev 12..
29	General	Bore well	We understand that, contruction of bore well is not in our scope, please confirm.	Confirmed.
30	General	Scope of work for civil BOQ	We understand that the quantity mentioned in "Price schedule" is tentative and for any changes in quantity during detailed engineering/execution, Bidder's may ask for quantity amendment. Please confirm.	Confirmed.
31	General	Dismantling/Demolishing Work	We understand that, the plot is free from any other existing temporary and permanent structures. There is no scope of dismantling and disposal of waste materials other then mentioned in BPS. Please confirm.	Proposed land has not been acquired yet
32	Voume-II, Section project clause 2.2.1 B xvi page 7 of 22	VISUAL MONITORING SYSTEM ...all the gates of switchyard.....In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations.	A) Please provide the number of gates of switchyard. B) Bidder understand the boundary to be considered for the current scope only or else provide the tentative length of the boundary. C) Which type of camera are acceptable along boundary, Bullet type or PTZ type. D)Whether the cameras are pole mounted or wall mounted. E) Applicable criterias for spacing between cameras for boundary wall. F) Whether all cameras shall on integrated on same system or seperate system is required for boundary wall cameras	A.Quantity of main gate and Switchyard Gates is specified in BPS. B. Length of Boundary is specified in BPS. C) Fixed type cameras shall be considered for boundary.D) The cameras shall be pole or wall mounted meeting the functional requirement. E) Shall be finalised during detailed engineering meeting the requiremet of TS and effective coverage. F) Common NVR shall be provided for Switchyard and Boundary wall cameras
33	Voume-II, Section project clause 2.2.1 A d page 5 of 22	Air conditioning system, Ventilation system and Fire detection & alarm system for GIS hall & relay panel room	Bidder understand GIS hall sizing is envisaged for the current scope only, please confirm.	Confirmed.

34	Voume-II, Section project clause 2.2.1 B xiii page 7 of 22	The capacity of Battery & Battery chargers shall be worked out by contractor for complete substation scope (765/400KV & STATCOM) including future bays. as described at clause 1.3 above and shall be submitted for Employer's approval. However, minimum capacity of each battery bank for 220V set and 48V set shall be 1500AH. Further, the minimum rating of each battery charger for 220V set and 48V set shall be 180A.	Bidder understand the continous load requirement for 220V Battery is 3 hours whereas for 48V battery is 10 hours, so there will be much higher rating requirement for the 48V Battery system of more than 1.5 times of the mentioned value. Please amend the minimum rating requirement of 48V battery to 2500AH and 48V battery charger to 275A to have parity among bidders.	As per Clause 2.2.1.B xiii) of section project, In case, battery and battery chargers of higher capacity/rating are required to cater the load requirement based on design calculations during detailed engineering, same shall be provided by the contractor without any additional cost implications.
	Voume-II, C/ENGG/SPEC/BAT Rev. No:7, June'2024 clause 1.1.4, page 1 of 13	48V DC system Continuous Load- 10 Hrs continuous		
35	Voume-II, Section project clause 9.6 page 19 of 22	Tuticorin (GH) GIS substations are situated in coastal area. Hence, all the specifications defined for coastal area in various sections of Technical Specifications shall be applicable for Kandla (GIS) substations.	Bidder understand Kandla (GIS) substations is not in the current scope. Please confirm.	Bidder to read "Kandla" in cl.9.6 of Section Project as "Tuticorin"
36	Voume-II, Section project clause 9.10 page 19 of 22	New Clause added under Section GTR Rev-15 as below: 14.4 CCTV system for Construction Monitoring for Substation/STATCOM Packages -To be provided by the contractor The contractor shall establish CCTV, atleast 5 days prior to commencement of Construction activities at site. Above equipment's shall be supplied as per technical specifications attached as Annexure-N. Power Supply arrangement including associated cabling works for above CCTV is to be arranged by the contractor	A) Bidder understand that supply and unloading of equipments/items of the project will be allowed prior to establishment of CCTV system also. Please confirm. B) Bidder understand that CCTV system will be supplied as per Annexure-N, from contractor approved sources without any formal approval of drawings/data sheet / inspection modalities from Powergrid, please confirm. C) Bidder understand suitable indoor space will be provided by employer for placement of Network Video Recorder(NVR), POE switch etc. D) Please provide details of the available Central VMS System and its location for further integration of the CCTV system.	A) Confirmed. B)CCTV shall be supplied from reputed vendors meeting the functional requirement of TS. Drawings and documents for CCTV shall be submitted for apprpval before installation of CCTV C) Confirmed D) Shall be provided during detailed engineering
37	Voume-II, Section project clause 2.2.1 B ix page 7 of 22	The fire alarm & Annunciation panels shall have sufficient capacity to accommodate the alarm/annunciation signals arising from the 400kV and 220kV System.	Bidder understand 220kV system is not envisaged for current and future scope. Please confirm.	Confirmed.
38	Volume-III, BPS sch-3 sl no. 61 & 65	High Mast for Lighting cum Lightning protection (40m height & 2.5 M Peak), including Hardware, Lantern carriages, pulley system with wire ropes, nuts, bolts, foundation bolts, all type of washers etc complete in all respect.	The item is repeated, please delete one line item	Please refer Amendment 1
39	Volume-III, BPS SCH-I sl no. 34	11 KV XPLE INSULATED, ARMORED, 3C X 240 SQ MM CABLE AS PER TS- 900 Meter	A) Bidder understand supply estimates for 900 Meter and laying estimate of 1800 Meter to be considered. Please confirm.	A)Bidder to quote as per Bidding document
	Volume-III, BPS SCH-III sl no. 18	Laying of 11 kV XPLE insulated, armored, 3C x 240 sq mm cable (two run) along the pole in steel pipe and burried under the groundas per approved drawings. This includes supply of all material i.e. steel pipe, clamps etc [for the portion that is along the pole]and brick & sand for buried portion required to complete the railway/highway crossing.- 900 Meter	B) Bidder understand that any statutory clearances for railway/highway crossing is not in bidder scope.Please confirm.	B) Since the 11kV Cable shall be used inside the substation for connection between SEB supply and LT Transformer, Statutory clearance for Railway/Highway crossing is not applicable

40	General	Site Storage Facility	We presume that space shall be provided at site for storage & site office construction at free of cost. Please confirm.	The Contractor has to ensure that the suitable arrangements of storage during the execution stage and overall responsibility of the same lies with him in line with the provision of the Bidding Documents. Further, for providing land for such construction store, the same can be done in coordination with site during execution stage depending upon the availability of space. However, the Employer has no binding to provide the same.
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Project	POWERGRID's Substation Package SS-103T (Tuticorin)
Equipment / Item	Supply & Services of 765kV GIS & Its associated equipment
Enquiry No/Date	NIT_89158_Enq No. 61Q2500520 Dated 27-02-2025

Change in Commercial terms and conditions of NIT:

With reference to Pre-bid meeting and subsequent submissions over Commercial terms of NIT, please refer following changes in NIT terms -

NIT Clause no.	Terms as per NIT	Revised NIT term
23 of STC	<p>Terms of Payment: Clause 23.C:</p> <p>Note: In case of Completion of Supervision of Erection, Testing including HV Testing & Commissioning & issuance of taking over certificate by end Customer gets delayed beyond 09 months from the date of receipt of last equipment at site, for the reasons not attributable to supplier, supplier may claim above payments of supply portion (23.C.1 & 23.C.2) by furnishing following documents.</p> <p>a) Invoice b) Certificate issued by BHEL site in charge, confirming that the equipment have been received in good condition and delay in completion of Supervision of Erection, Testing including HV Testing & Commissioning is not attributable to supplier (to be arranged by BHEL TBG). c) Bank Guarantee of equivalent value initially valid for 12 months from the date of submission of invoice. In case of Supervision of Erection, Testing including HV Testing & Commissioning is not successfully completed before expiry of Bank Guarantee, BG shall be kept suitably extended till successful completion of Supervision of Erection, Testing including HV Testing & Commissioning. The bank guarantee shall, however, be released within one month of successful commissioning.</p>	<p>Clause 23.C: Remains same as per NIT.</p> <p>Note: In case of Completion of Supervision of Erection, Testing including HV Testing & Commissioning of complete GIS system gets delayed beyond 06 months from the date of receipt of last equipment at site, for the reasons not attributable to supplier, supplier may claim above payments of supply portion (23.C.1 & 23.C.2) by furnishing following documents.</p> <p>a) Invoice b) Certificate issued by BHEL site in charge, confirming that the equipment have been received in good condition and delay in completion of Supervision of Erection, Testing including HV Testing & Commissioning of complete GIS system is not attributable to supplier (to be arranged by BHEL TBG). c) Bank Guarantee of equivalent value initially valid for 12 months from the date of submission of invoice. In case of Supervision of Erection, Testing including HV Testing & Commissioning is not successfully completed before expiry of Bank Guarantee, BG shall be kept suitably extended till successful completion of Supervision of Erection, Testing including HV Testing & Commissioning. The bank guarantee shall, however, be released within one month of successful commissioning.</p>

Terms and conditions have been mentioned in brief in above table, however, Detailed terms and conditions as per NIT and subsequent corrigendum shall be applicable along with changes as mentioned above.

All other queries related to Commercial Terms and conditions of NIT have been reviewed and there is no change. "All other terms and conditions of NIT shall remain same."