Bid Number: GEM/2025/B/6358870
Dated: 29-08-2025

Bid Corrigendum

GEM/2025/B/6358870-C4

Following terms and conditions supersede all existing “Buyer added Bid Specific Terms and conditions” given in the bid document or any previous corrigendum. Prospective bidders are advised to bid as per following Terms and Conditions:

Buyer Added Bid Specific Additional Terms and Conditions

1. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be (Increased quantity ÷ Original quantity) × Original delivery period (in days), subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.
2. **Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.
3. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.
4. Bidder shall submit the following documents along with their bid for Vendor Code Creation:

   a. Copy of PAN Card.

   b. Copy of GSTIN.

   c. Copy of Cancelled Cheque.

   d. Copy of EFT Mandate duly certified by Bank.

5. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
6. Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address
   CENTRAL STORE
   CHAMERA-1 POWER STATION, NHPC LIMITED
   KHAIRI, DISTRICT-CHAMBA
   HIMACHAL PRADESH
   PIN-176325
   .
7. Bidders can also submit the EMD with Account Payee Demand Draft in favour of
   NHPC LIMITED
   payable at
   FARIDABAD
   .
   Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

8. 1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
   2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
   3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.
9. Buyer Added text based ATC clauses

   Note- Total Estimated Cost: INR 115,64,00,000/- (Inclusive of GST)

   .
10. Buyer uploaded ATC document Click here to view the file.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to

such representations.

*This document shall overwrite all previous versions of Bid Specific Additional Terms and Conditions.

This Bid is also governed by the General Terms and Conditions

NHPC LIMITED
(A Govt. of India Navratna Enterprise)
NHPC Office Complex, Sector-33, Faridabad-121003, Haryana (India)
CIN: L40101HR1975GOI032564

Dated: 29.08.2025

Corrigendum No.-01 along with Informative Replies

Name of Work: Replacement of Stator Assembly in Two (02) Nos. Generating Units at Chamera-1 Power Station, Khairi, Chamba, Himachal Pradesh.

Tender Specification No. : GEM/2025/B/6358870, Dated: 01.08.2025

In reference to subject tender, pursuant to queries received from Prospective Bidders before & after Pre-Bid meeting held on 14.08.2025, **Techno-commercial Amendments** are annexed as 'Commercial_Amendment_01, 'Technical_D_Amendment_01' and 'Technical_Q_Amendment_01'.

All other terms & conditions and specifications of the Bid Document shall remain unchanged.

For & on behalf of NHPC Ltd.,

Sd/-

General Manager,
Contracts (E&M)-III,
2nd Floor, Jyoti Sadan, NHPC Office Complex,
Sector-33, Faridabad-121003 (Haryana),
Tele # 0129-2254687
E-mail: nalinikantverma@nhpc.nic.in

Description of Work: Replacement of Stator Assembly in Two (02) Nos. Generating Units at Chamera-1 Power Station, Khairi, Chamba, Himachal Pradesh.

Tender Reference No.: GEM/2025/B/6358870, Dated:-01.08.2025

Commercial_Amendment_01

Sl. No.	Description of referred clause	Referred Clause No.	Existing Clause of Tender Document	Modified provision of Tender Document
	Volume- II B-SCC			
1.	**COMPLETION PERIOD / SCHEDULE**	**2.0**	Total completion period for Engineering, design, manufacture, quality assurance, quality control, shop assembly, shop testing, delivery at site, site storage and preservation, dismantling, installation, testing, commissioning and handing over of stator assemblies to NHPC as defined in the Scope of Work shall be 16 months for 1st Unit and 18 months for 2nd Unit from the date of award of the Contract. This completion period of each unit includes time period of 45 days for each unit for the activities: "Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipments, auxiliaries, instrumentation and all accessories etc. defined under scope of work.	Total completion period for Engineering, design, manufacture, quality assurance, quality control, shop assembly, shop testing, delivery at site, site storage and preservation, dismantling, installation, testing, commissioning and handing over of stator assemblies to NHPC as defined in the Scope of Work shall be **16 months for 1st Unit (Unit#3) and 18 months for 2nd Unit (Unit#2)** from the date of award of the Contract. This completion period for each unit includes the period required for the work "Dismantling of the existing system and other components as applicable; lowering of the new stator assembly; erection, boxing up the unit, testing, and commissioning of the newly supplied stator assembly; and all associated equipment, auxiliaries, instrumentation, and accessories as defined under the scope of work" hereinafter termed as "ET&C Period" and the same is as under: a) 45 days for Unit #3 and b) 75 days for Unit #2 This ET&C period for both units shall be cumulative to 120 days (75 days + 45 days). Time saved in the ET&C

<table>
<tr><th>Sl. No.</th><th>Description of referred clause</th><th>Referred Clause No.</th><th>Existing Clause of Tender Document</th><th>Modified provision of Tender Document</th></tr>
<tr>
<td></td><td></td><td></td>
<td>
Completion schedule for scope of work as defined in Contract shall be as per table below:
<table>
<tr><th>Sl. No.</th><th>Work Description</th><th>Completion Schedule</th></tr>
<tr><td>A</td><td colspan="2">Supply Part</td></tr>
<tr><td></td><td>Detailed engineering, manufacturing and delivery of Stator Assembly (including erection work of completely build Stator at Service Bay) along with all associated equipment, auxiliaries, instrumentation, specified tools, spares and all accessories etc. defined under scope of work & Specifications</td><td>For 1st Generating Unit - within 14.5 months (fourteen month & fifteen days) from date of award of the Contract (covering Item No. A.1, A.2, A.3 & A.4 of Schedule of Quantities & Prices)

For 2nd Generating Unit – within 16.5 months (sixteen month & fifteen days) from date of award of the Contract (covering Item No. A.1 & A.4 of Schedule of Quantities & Prices)</td></tr>
<tr><td>B</td><td colspan="2">Dismantling, Installation, Testing & Commissioning Part</td></tr>
<tr><td></td><td>Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipment, auxiliaries, instrumentation and all accessories etc.</td><td>Within 45 days for each Generating Unit

The work shall be allowed to be carried out during the annual maintenance shutdown period of the Power Station (i.e. between November to March) and/ or as per schedule notified by the Engineer-In-Charge</td></tr>
</table>
</td>
<td>
period in one unit may be utilized/adjusted in the ET&C period of the other unit.

Completion schedule for scope of work as defined in Contract shall be as per table below:
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For 2nd Generating Unit (Unit # 2) – within 15.5 months (fifteen month & fifteen days) from date of award of the Contract (covering Item No. A.1 & A.4 of Schedule of Quantities & Prices)</td></tr>
<tr><td>B</td><td colspan="2">Dismantling, Installation, Testing & Commissioning Part</td></tr>
<tr><td></td><td>Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipment, auxiliaries, instrumentation and all accessories etc. defined under scope of work &</td><td>a) 45 days for Unit #3 and
b) 75 days for Unit #2

However, the Contractor shall make their best efforts to minimize the ET&C period in each unit.</td></tr>
</table>
</td>
</tr>
</table>

Sl. No.	Description of referred clause	Referred Clause No.	Existing Clause of Tender Document	Modified provision of Tender Document
			defined under scope of work & Specifications: (EIC). However, the Contractor shall make their best efforts to minimize the shutdown period of 45 days per Unit.	Specifications: The cumulative ET&C period for both units shall be **120 days (75 days + 45 days)**. Any time saved in the ET&C period of one unit **shall be utilized/adjusted** towards the ET&C period of the other unit.
2	**PROJECT IMPLEMENTATION**	**2.2**	The Contractor shall submit a bar chart for execution of the work along with the bid. The proposed project implementation is a major replacement job. However the Contractor should make all necessary preparations such as: Pre-visit of the power station well in advance and prepare the schedule of implementation. The preparatory work prior to lowering of stator assembly in the generator pit shall be done in the available space at service-bay of Chamera-1 Power House. The space at the service bay is available only for a single unit. Preparatory work and execution shall be scheduled accordingly. The brief details in this regard have been mentioned at Clause No. 13. The Erection, Testing and commissioning work in the generator pit after receipt of the material at site and after	The Contractor shall submit a bar chart for execution of the work along with the bid. Unit #3 shall be undertaken first, unless otherwise approved/directed by the Engineer-in-Charge (EIC). The works under this contract constitute a major replacement job. Accordingly, the Contractor shall undertake all necessary preparatory actions, including but not limited to: • Conducting a pre-visit of the power station well in advance; and • Preparing a detailed working schedule to ensure completion of the works within the stipulated completion period as per the scope of work. The preparatory work prior to lowering of stator assembly in the generator pit shall be done in the available space at service-bay of Chamera-1 Power

Sl. No.	Description of referred clause	Referred Clause No.	Existing Clause of Tender Document	Modified provision of Tender Document
			completion of the preparatory work at the service bay shall be executed in lean period (Nov-March) so as to minimize the generation Loss. Newly Commissioned stators shall be kept under observation for one week for any abnormality or checking of electrical and mechanical parameters of the unit. The dismantling work of the second unit shall only be started after successful synchronization of first unit.	House. The space at the service bay is available only for a single unit. Preparatory work and execution shall be scheduled accordingly. The brief details in this regard have been mentioned at Clause No. 13. *The erection, testing, and commissioning work in the generator pit, after receipt of material at site and completion of preparatory activities at the service bay, shall **preferably** be executed during the lean period (November to April) in order to minimize capacity & generation loss.* *The dismantling work of the second unit shall **preferably** be carried out after successful synchronization of the first unit or otherwise approved/directed by the Engineer-in-Charge (EIC).*
3.	**Liquidated Damage**	**5.0**	Contractor is advised to take all efforts to complete the Supply, Erection Testing and Commissioning work in stipulated time as provided in this Contract to the satisfaction of Engineer-in-charge. If the Contractor fails to attain completion of supply part of individual generating unit within the stipulated completion period as per Sl. No. 2 A of SCC, the Contractor shall pay to the Employer liquidated damages equal to the amount computed @ ½ (half) percent per week or part thereof of Contract Price of supply part of individual generating unit. The liquidated damages @ Rs. 15.06 Lakh per day shall be levied for individual generating unit for delay attributable to Contractor beyond stipulated period for	Contractor is advised to take all efforts to complete the Supply, Erection Testing and Commissioning work in stipulated time as provided in this Contract to the satisfaction of Engineer-in-charge. If the Contractor fails to attain completion of supply part of individual generating unit within the stipulated completion period as per Sl. No. 2 A of SCC, the Contractor shall pay to the Employer liquidated damages equal to the amount computed @ ½ (half) percent per week or part thereof of Contract Price of supply part of individual generating unit. The liquidated damages @ Rs. 15.06 Lakh per day shall be levied for delay attributable to Contractor beyond cumulative stipulated period for Dismantling, Installation, Testing & Commissioning Part as per Sl.

Sl. No.	Description of referred clause	Referred Clause No.	Existing Clause of Tender Document	Modified provision of Tender Document
			Dismantling, Installation, Testing & Commissioning Part as per Sl. No. 2 B of SCC. The aggregate amount of such liquidated damages for individual generating unit shall in no case exceed 5% of Contract Price and aggregate amount of liquidated damages for both generating units shall not exceed 10% of the Contract Price.	No. 2 B of SCC (i.e. beyond 120 days). The aggregate amount of such liquidated damages shall in no case exceed 10% of the Contract Price.
GENERAL				
4.	Header: Consignees/Reporting Officer and Quantity-Delivery Days	GeM Bid Document	638 days	543 days

AMENDMENTS AUTHORISED FOR "REPLACEMENT OF STATOR ASSEMBLY IN TWO (02) NOS GENERATING UNITS AT CHAMERA-1 POWER STATION, KHAIRI, CHAMBA, HIMACHAL PRADESH

Tender Reference No.: GEM/2025/B/6358870, Dated:-01.08.2025

Sl No	Clause No	Authorized Amendments
A. TECHNICAL SPECIFICATIONS		
1.	Volume-III Technical Datasheet, Sl. No. 21 of GTP	The text "Maximum stator winding temperature rise (measured by RTD) above ambient air temperature (40 degree C) with the generator delivering maximum rated output (225MVA) continuously while operating at rated power factor over the range of 90% to 110% of rated voltage and 95% - 103% of rated voltage and 98% - 103% of rated frequency" is 77°C **is substituted by** "Maximum stator winding temperature rise (measured by RTD) above ambient air temperature (40 degree C) with the generator delivering maximum rated output (225MVA) continuously while operating at rated power factor over the range of 90% to 110% of rated voltage and 95% - 103% of rated frequency" is 80°C.
2.	Volume-III Technical specifications Cl. 9 "An automatic water sprinkler system completes with the water distributing mains and two ring headers……..at the minimum nozzle pressure"	**Fire Fighting System** **New Line is inserted at the end of 1st para as below: -** "High Velocity water sprinkler system (HVWS) is required as per NFPA standards for the generator as the pressure at tapping point is 5 bar".

3.	Volume-III Technical specifications Cl. No.-A1 (iv)	The text "The new supplied stator frames complete shall be lowered in the existing generator pits after dismantling of existing stator and rotor assembly". **is substituted by** "The new supplied stator frames complete shall be lowered in the existing generator pits after dismantling of existing stator and rotor assembly, (rotor removal in Unit #2 and rotor poles in Unit # 3, further qualified in scope of works)".
4.	Volume-III Technical specifications Cl No-A.2. Dismantling & Assembly Works: a) Page-3	The text "Dismantling & withdrawal of the Rotor along-with stub shaft, Upper Guide Bearing, slip ring etc. of two (02) nos. of generating units and their placement at service bay, as per applicability". **is substituted by** "Dismantling and withdrawal of the rotor, together with the stub shaft, upper guide bearing, slip ring, etc. of Unit #2, and placement of these components in the service bay, as applicable. For Unit #3, removal of the rotor is not envisaged; however, all rotor poles shall be removed".
5.	Volume-III Technical specifications Cl No-A.2. Dismantling & Assembly Works: a) Methodology of Dismantling and Erection: Page-3	The text appearing in 1st Para "For each unit, the existing generator barrel components related to the stator like stator frame, stator core, stator coils, air coolers etc. shall be dismantled & removed from the generator pit and transported to the Chamera-I PS site store (central/ Sanjpoi store, Khairi, Chamera-I Power Station) from the Power house complex. However, the rotor of the unit shall be placed and kept at appropriate location in Service Bay of Powerhouse ensuring sufficient space for erection works". **is substituted by** "For each unit, the existing generator barrel components related to the stator such as the stator frame, stator core, stator coils, air coolers, etc. shall be dismantled and removed from the generator pit, and subsequently transported to the Chamera-I Power Station store (Central/Sanjpoi Store, Khairi, Chamera-I Power Station) from the powerhouse complex. For Unit #2, the rotor shall be placed and securely kept at an appropriate location

		(rotor pit) in the service bay of the powerhouse, ensuring sufficient space for erection works. For Unit #3, removal of the rotor is not envisaged; however, all rotor poles shall be removed".
6.	Volume-III Technical specifications Cl No-A.2. Dismantling & Assembly Works: a) Methodology of Dismantling and Erection: Page-4	The text appearing at last para "Cleaning of complete rotor including rim ventilation passages, excitation leads/DC bus bar and rotor poles, red gel touch up where necessary and testing of rotor poles to check its healthiness for two units before placement into the pit again. After dismantling, if unhealthy pole/poles are found then supply of same shall be in the scope of NHPC. Rotor pole cleaning may require removal of all the poles from rotor which involves unbolting of pole interconnections. Till the lowering of the newly build stator, the rotor kept outside shall be covered properly after its testing works for ingress protection from foreign particles. One (1) set of rotor pedestals are available at site. However, other tools required shall be in the scope of contractor. The rotor lifting shall be done with the available EOT cranes (2x190/30/10Ton) at Power house". **is substituted by** "Cleaning of excitation leads, DC bus bars, and rotor poles, along with red gel touch-up where necessary, and testing of rotor poles to verify their health condition shall be carried out for both units prior to placement into the pit. For Unit #2, complete rotor cleaning, including rim ventilation passages, shall be performed in the service bay area. For Unit #3, the same activity shall be carried out in the generator pit before installation of the new stator assembly. After dismantling, if unhealthy pole/poles are found then supply of same shall be in the scope of NHPC. Rotor pole cleaning may require removal of all the poles from rotor which involves unbolting of pole interconnections. Till the lowering of the newly build stator, the rotor kept outside shall be covered properly after its testing works for ingress protection from foreign particles. One (1) set of rotor pedestals are available at site. However, other tools required shall be in the scope of contractor. The rotor lifting shall be done with the available EOT cranes (2x190/30/10Ton) at Power house".

7.	Volume-III Technical specifications Cl No-A.2. Dismantling & Assembly Works: e) Methodology of Dismantling and Erection: Page-5	The text "Lowering of newly wound stator assembly complete into generator barrel and its levelling and centering and fixing it with sole plate, fixing of new stator air coolers within the existing generator barrel along with the new pipelines. Lowering of existing rotor from service bay into rotor pit. Unit axis alignment & levelling, unit centering, bearing gap setting of TGB & UGB. Replacement of any component of bearings, if required shall be provided by NHPC. Rotor levelling may involve provisioning of shims at thrust cone area for which multiple times rotor lifting/ removal may be required". **is substituted by** "Lowering of the newly wound stator assembly into the generator barrel, followed by levelling, centering, and fixing it with the sole plate. Installation of new stator air coolers within the existing generator barrel, along with associated new pipelines, shall also be carried out. For Unit #2, lowering of the existing rotor from the service bay into the rotor pit shall be undertaken. Further, unit axis alignment, levelling, centering, and bearing gap setting of the TGB and UGB. For Unit # 3: Rotor removal is not envisaged. Leveling shall be checked. If levelling correction is required, methodology including time period shall be submitted for approval of EIC. If rotor removal is required, further time period shall be given but in no case more than the time period given in Unit#2. Replacement of any bearing components, if required, shall be provided by NHPC. Rotor levelling may involve the provision of shims at the thrust cone area, which may necessitate multiple instances of rotor lifting and removal".
8.	Volume-III Technical specifications Cl. 19.1.(g) Special tools Page: 23	The text "One (1) set of induction brazing equipment suitable for interconnection of windings of Stator under supply. The brazing machine shall have Continuous output power≥ 50 KW, Maximum Output Power ≥ 80kW with 0.5 as duty factor and 10 minutes as maximum cycle time, Output Frequency Range: 10 to 25 KHz, Output Power regulation range: 10-100%," **is substituted by** "One (1) set of induction brazing equipment suitable for interconnection of windings

		of Stator under supply. The brazing machine shall have minimum output power≥ 50 KW, Maximum Output Power ≥ 80kW with 0.5 as duty factor and 10 minutes as maximum cycle time, Output Frequency Range: 10 to 25 KHz, Output Power regulation range: 10-100%,"
9.	**VOLUME-III Technical data sheet (GTP)** Sl. No. 6	The text "Short circuit Ratio: Not less than 1.3" **is substituted by** "Short circuit ratio Not less than 1. 1 at 0.9 pf".

NHPC LIMITED

Replacement of Stator Assembly in Two (02) Nos Generating Units at Chamera-I Power Station(3 x 180 MW), Khairi, Chamba, Himachal Pradesh

NIT No. GEM/2025/B/6358870 Dated:01.08.2025

Technical_Q_Amendment_01

Sr.No.	Volume / Clause No. & Name / Page No.	Existing Clause of MQAP/QTS	Modified Clause
1	Volume - IV Quality Test Specification (QTS) Sr. No 2 -Field Tests,	Tests on Copper Conductor for Stator Winding • Dimensional Check of Bare & Covered • Insulation Thickness • Bending, Tensile & Elongation Test • Cure Test (If Applicable) • Break Down Voltage Test. • Resistance Measurement • Insulation Resistance Measurement	AGREED **TC /COC**Shall be provided by the Vendor/ Contractor
2	QAP-Model: Generator -Stator Punching (Page 3 of 9)	B- In Process i)Check of Burr Level in Punching ii) Stacking factor iii)Check for Quality of Lamination Varnishing, Thickness & IR value iv) Specific Total Loss v) Magnetic Polarization vi)Dimensional checking (Punching Thickness, Waviness, Packet size & Height) vii) Trail Assembly of Punching (Core dia , Core Height etc) Quantum of Checks-Sample Plan ,Record Format-JIR,Remarks-CHP	B- In Process i)Check of Burr Level in Punching ii) Stacking factor iii)Check for Quality of Lamination Varnishing, Thickness & IR value iv) Specific Total Loss v) Magnetic Polarization vi)Dimensional checking (Punching Thickness, Waviness, Packet size & Height) vii) Trail Assembly of Punching (Core dia , Core Height etc) Quantum of Checks-Sample Plan, Record Format-**TC/COC**,Remarks-**TC/COC**
3	QAP-Model: Generator -Stator Punching (Page 3 of 9)	B- In Process i)Check of Burr Level in Punching ii) Stacking factor iii)Check for Quality of Lamination Varnishing, Thickness & IR value iv) Specific Total Loss v) Magnetic Polarization vi)Dimensional checking (Punching Thickness, Waviness, Packet size & Height) vii) Trail Assembly of Punching (Core dia , Core Height etc) Quantum of Checks-Sample Plan ,Record Format-JIR,Remarks-CHP	B- In Process i)Check of Burr Level in Punching ii) Stacking factor iii)Check for Quality of Lamination Varnishing, Thickness & IR value iv) Specific Total Loss v) Magnetic Polarization vi)Dimensional checking (Punching Thickness, Waviness, Packet size & Height) vii) Trail Assembly of Punching (Core dia , Core Height etc) Quantum of Checks-Sample Plan, Record Format-**TC/COC**,Remarks-**TC/COC**
4	QAP-Model: Generator -Stator Punching (Page 4 of 9)	D Core Assembly i) Dimension Check (Check of core for waviness,core dia,packet size and Height after assembly) ii) Core Loss Test and Hot Spot detection Quantum of Checks-Sample Plan ,Record Format-JIR,Remarks-CHP	If Core Assembly will be done at site then the mentioned test shall be covered in FQAP (Field Quality Plan)
	Note	Missing page 2 of 9 and 5 of 9 of QAP of Bid Document is attached herewith as Annexure-I to this **Technical_Q_Amendment_01**	

गुणवत्ता आश्वासन योजना (QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) : चमेरा पावर स्टेशन -1(Chamera Power Station-1)
ग्राहक (CLIENT): एनएचपीसी लिमिटेड (NHPC LTD.)
उपष्कर का नाम (NAME OF EQUIPMENT) : Generator -Stator Frame
विक्रेता (VENDOR):
एनआईटी/ क्रय आदेश संदर्भ(NIT / P.O. Reference) :

क्र. सं. S.N.	मद/घटक एवं विशेषता ITEM/ COMPONENT & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERNCE DOCUMENT/ ACCEPTANCE NORMS	रेकॉर्ड फ़ारमैट RECORD FORMAT	निरीक्षण एजेंसी Inspecting Agency			टिप्पणी Remarks
						प्रदर्शन PERFORM	गवाह WITNESS	सत्यापन VERIFY	
A	**Raw Material (Carbon Steel Plate)**								
a)	Chemical Analysis	Chem.	Sample/Lot	Tech.Spec./Appd.Drg/ /IEC/IS/Rel. Standard	TC	3/2	-	1	TC
b)	Mechanical Properties	Mech.	-do-	-do-	TC	3/2	-	1	TC
c)	NDT on Steel Plate (thk>40 mm)	UT	-do-	-do-	TC	3/2	-	1	TC
B	**In process Inspection**								
a)	Check of Full Strength Welding (class-I) as applicable	X -Ray/UT	Sample/Lot	Tech.Spec./Appd.Drg/ /IEC/IS/Rel. Standard	TC	3/2	-	1	TC
b)	NDT of welds	RT/UT/MPI/DPT(as applicable)	-do-	-do-	TC	3/2	-	1	TC
c)	Dimensional Check after machining	Measurement	-do-	-do-	TC	3/2	-	1	TC
C	**Final Inspection**								
a)	Welding Examination	RT/UT/MPI/DPT(as applicable)	-do-	-do-	JIR	3/2	1	-	CHP
b)	Sole Plate Mounting Face - Level Checking & Check of Flatness	Measurement	Sample	Tech.Spec./Appd.Drg/ /IEC/IS/Rel. Standard	JIR	3/2	1	-	CHP
c)	Sole Plate- Dimensional & Flatness	-do-	-do-	-do-	JIR	3/2	1	-	CHP
d)	Dimensional Check of Stator Frame	-do-	-do-	-do-	JIR	3/2	1	-	CHP
e)	Surface finish of Machined surface	Visual	-do-	-do-	JIR	3/2	1	-	CHP
f)	Flatness Check of Seating Surface of Air Cooler	-do-	-do-	-do-	JIR	3/2	1	-	CHP
g)	Painting& Preservation	-do-	-do-	-do-	JIR	3/2	1	-	CHP

Note:
a. In 'Inspection Agency'column figure 1,2,or 3 to be filled. 1- will indicate Employer/ NHPC LTD', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission & CHP - Customer Hold Point, COC - Certificate of Conformance
c. The firm shall obtain acceptance/clearance of finished product for further activities based on Test Certificates & Internal Report (IR)
d. At the time of Inspection the supplier shall arrange the requisite calibrated measuring instruments i.e.micrometer, vernier caliper, pie tape, surface roughness tester, dial gauge etc.
e. Any additional test required as per the requirement of equipment in accordance with Contract Agreement/Relevent standard apart from QAP will be carried out by the firm without any additional financial implication.

f. This QAP does not absolve the Contractor/sub-contractor of his responsibility to supply the correct products, strictly in conformity to the specifications given in the purchase order/contract. The above Model QAP stipulates the bare minimum requirements which shall be complied by the contractor. The above QAP has been made presuming subletting of work shall be allowed in the tender. In case subletting of work is not allowed in the tender, then"3/2" shall be considered as "2" under the column " Perform" .
g. Bidder/Contractors/Supplier/OEM shall ensure compliance of cyber security as per order no-12/34/2020-T&R, dated-24.12.2021(Latest Amendment if any) issued by MOP,GOI.

Signature
NHPC (QA&I DEPT.)

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

IMS\QAI\F01
Rev No.- 03
Effective Date- 09.01.2019

गुणवत्ता आश्वासन योजना (QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) : चमेरा पावर स्टेशन -1(Chamera Power Station-1)
ग्राहक (CLIENT): एनएचपीसी लिमिटेड (NHPC LTD.)
उपष्कर का नाम (NAME OF EQUIPMENT) : Generator- Stator Winding Bars
विक्रेता (VENDOR):
एनआईटी/ क्रय आदेश संदर्भ(NIT / P.O. Reference) :

क्र. सं. S.N.	मद/घटक एवं विशेषता ITEM/ COMPONENT & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERNCE DOCUMENT/ ACCEPTANCE NORMS	रेकॉर्ड फ़ारमैट RECORD FORMAT	निरीक्षण एजेंसी			टिप्पणी Remarks
						प्रदर्शन PERFORM	गवाह WITNESS	सत्यापन VERIFY	
1	**Raw Material**								
A.	**Copper Strands (Material Grade)**								
i)	Chemical analysis	Chemical	Sampling plan	Tech.Spec./Appd.Drg/ /IEC/IS/Rel. Standard	TC	3/2	-	1	TC
ii)	Electrical Resistivity Test	Electrical	-do-	-do-	TC	3/2	-	1	TC
B.	**Fiber Glass Covered Epoxy/Polyestrimide Varnish Bonded/Insulated Recangular Copper**								
i)	Dimensional check of Bare & Covered Bar & Insulation Thickness	Measurement	Sampling plan	Tech.Spec./Appd.Drg/ /IEC/IS/Rel. Standard	TC	3/2	-	1	TC
ii)	Bending/Flexibility , Tensile & Elongation Test	Mechanical	-do-	-do-	TC	3/2	-	1	TC
iii)	Breakdown Voltage Test at Room & rated temp.	Electrical	-do-	-do-	TC	3/2	-	1	TC
iv)	Cure Test	Thermal	-do-	-do-	TC	3/2	-	1	TC
v)	Resistivity Measurement	Electrical	-do-	-do-	TC	3/2	-	1	TC
B.	**Mica Tape**								
i)	Thickness	Measurement	Sampling Plan	Tech.Spec./Appd.Drg/ /IEC/IS/Rel. Standard	TC	3/2	-	1	TC
ii)	Tensile Strength	Mechanical	-do-	-do-	TC	3/2	-	1	TC
iii)	Mica content	Chemical	-do-	-do-	TC	3/2	-	1	TC
iv)	Resin Content (for Resin Rich only)	-do-	-do-	-do-	TC	3/2	-	1	TC
v)	Voltality Content	-do-	-do-	-do-	TC	3/2	-	1	TC
vi)	Break Down Voltage	Electrical	-do-	-do-	TC	3/2	-	1	TC
vii)	Shelf life (Tape life)	Chemical/Thermal	-do-	-do-	TC	3/2	-	1	TC
viii)	Resin Flow Rate	Chemical/Thermal	-do-	-do-	TC	3/2	-	1	TC

Note:
a. In 'Inspection Agency'column figure 1,2,or 3 to be filled. 1- will indicate Employer/ 'NHPC LTD', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission & CHP - Customer Hold Point, COC - Certificate of Conformance
c. The firm shall obtain acceptance/clearance of finished product for further activities based on Test Certificates & Internal Report (IR)
d. At the time of Inspection the supplier shall arrange the requisite calibrated measuring instruments i.e.micrometer, vernier caliper, pie tape, surface roughness tester, dial gauge etc.
e. Any additional test required as per the requirement of equipment in accordance with Contract Agreement/Relevent standard apart from QAP will be carried out by the firm without any additional financial implication.

f. This QAP does not absolve the Contractor/sub-contractor of his responsibility to supply the correct products, strictly in conformity to the specifications given in the purchase order/contract. The above Model QAP stipulates the bare minimum requirements which shall be complied by the contractor. The above QAP has been made presuming subletting of work shall be allowed in the tender. In case subletting of work is not allowed in the tender, then"3/2" shall be considered as "2" under the column " Perform" .
g. Bidder/Contractors/Supplier/OEM shall ensure compliance of cyber security as per order no-12/34/2020-T&R, dated-24.12.2021(Latest Amendment if any) issued by MOP,GOI.

Signature
NHPC (QA&I DEPT.)

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

NHPC LIMITED
(A Govt. of India Navratna Enterprise)
NHPC Office Complex, Sector-33, Faridabad-121003, Haryana (India)
CIN: L40101HR1975GOI032564

Dated: 29.08.2025

Informative Replies

Name of Work: Replacement of Stator Assembly in Two (02) Nos. Generating Units at Chamera-1 Power Station, Khairi, Chamba, Himachal Pradesh.

Tender Reference No.: GEM/2025/B/6358870, Dated:-01.08.2025

The replies/clarifications against pre-bid & post pre-bid queries for the subject tender **not affecting the terms and conditions of tender document** is hereby attached as **"Informative Replies"** and annexed as Part-A, Part-B and Part-C for information please.

Sd/-

General Manager,
Contracts (E&M)-III,
2nd Floor, Jyoti Sadan, NHPC Office Complex,
Sector-33, Faridabad-121003 (Haryana),
Tele # 0129-2254687
E-mail: nalinikantverma@nhpc.nic.in

INFORMATIVE REPLIES

PART-A

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
1	NIT	Online Bid Submission End Date & Time	We request you to extend the online bid submission date by 6 weeks from the date of replies of pre bid queries as the bidder has to incorporate the pre-bid meeting replies, considering the magnitude of the work in this prestigious project.	Please adhere to bid conditions.
2	NIT	e- Reverse Auction	We would again like to request NHPC for the removal of e-RA. Reverse auction process with H1 elimination, will result in unrealistically low prices and will affect quality and safety of equipment. Hence this needs a total relook by NHPC.	Please adhere to bid conditions.
3	IFB Cl. 8	Electric power Contractor shall provide own arrangement of power by installing DG's etc. For the temporary establishment...	We request NHPC to provide required electricity to contractor at site, store and camp site on chargeable basis. Please accept.	Bid provisions are clear in this regard. Please adhere to bid conditions.
4	GCC Cl. 10.1	Interchangeability	We understand that Unit- 2 & 3 are covered in the tender scope. Both the units are fully identical (including civil foundation) & all components to be retained are interchangeable. Please confirm.	Bid provisions are clear in this regard. Please adhere to bid conditions.
5	GCC, 13.2	Power To Vary or Omit Work	Please delete the last sentence of the said sub-clause The decisions of the Engineer-in-Charge in this regard shall be final and binding	Please adhere to bid conditions.
6	GCC 8.1	Patent Right	Pls add… Contractor shall indemnify the Purchaser from and against such **third party** claim or demand and all costs and expenses	Please adhere to bid conditions.
7	GCC 16	Death, insolvency and breach of Contract	Please modify the said sub-clause in order to incorporate the following In case of termination due to insolvency, winding up or breach, Contractor should be entitled for all payments outstanding as on the date of termination from the Employer. Contractor is not liable to pay extra expenditure if any incurred by the Employer in case of termination due to death, insolvency or breach of contract. Termination right of Employer for breach should only be applicable if the breach is 'material' and the same is not cured by Contractor within 30 days' notice period from the Employer.	Please adhere to bid conditions.
8	GCC, 17.1	Time for Completion	We request to modify the said sub-clause as The Contractor shall provide full programme of the Supplies and or Works in detail and delivery schedule thereto. Strict adherence to the **overall** prescribed time schedule mentioned in the Contract shall be the essence of the Contract **for reasons for delay solely attributable to Contractor,except for delays on account of the Employer or any third party or due to reasons beyond the control of the Parties.**	Please adhere to bid conditions.
9	GCC 18	Delay in Works	We understand that liquidated damages shall be payable by the Contractor if delay is due to reasons specifically attributable to Contractor only in sub-clause 18.1. We agree with the weekly LD rates provided in the GCC 18.1 and suggest that these liquidated damages shall be considered as a sole & exclusive LDs for any delay on part of the Contractor.	Please adhere to bid conditions.
10	GCC 22	Extension of Time for Completion	As the site has been identified and chosen by the Purchaser and the Contractor has a limited role of supply and services of Works, we suggest that the Contractor shall also be entitled for extension of time and cost compensation due to any strikes and labour disturbances at the project site. Under Point (a) of sub-clause 22.1, we understand that any Change in the scope of work includes any variation as provided in sub-clause 13.1 to 13.5 also.	Please adhere to bid conditions.
11	GCC 22	Extension of Time for Completion	We request NHPC to kindly add the additional clause & Annexure same like Sewa & Uri Generator Tender In the event of extension of Time for Completion granted pursuant to GCC sub-clause 22.1 (c) and (d) under the Contract, the Contractor shall be entitled of cost towards idling of Contractor's Resources as per the Annexure - Valuation of Idling Time Cost Claims.	Please adhere to bid conditions.

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
12	GCC 32	Inspection and Testing	We request for removal of the last line of sub-clause 32.3 beginning with 'The Plant shall be……' in writing. We also request for amendment in sub-clause 32.6 wherein equipment will deemed to be accepted based on Contractor's factory inspection report only if the certificate of approval on such report is not issued in 14 days from the date of notice for final inspection by the Contractor.	Please adhere to bid conditions.
13	GCC 34.3	The Purchaser shall ensure readiness of the associated Civil works including foundations matching with the requirements at site as per the Inspection Schedule approved by the Engineer-in-Charge.	Bidder proposes exclusion of any kind of civil works from the scope. Please confirm.	Please adhere to bid conditions.
14	GCC 38	Liability for accidents and damages	Clause 38.5 – Contractor's all obligations towards the Purchaser has already been covered in the Contract and therefore suggest that Contractor's indemnification obligations shall only be restricted to any third party's claims restricted for any damage to a tangible property and for any physical injury.	Please adhere to bid conditions.
15	GCC 42	Deductions from Contract Prices	Please delete the said sub-clause 42.2 in entirety, as it off sets the payment of this contract from other contracts.	Please adhere to bid conditions.
16	GCC 44	Payment upon Termination	Please modify the said sub-clause as If the Contract is terminated at the Purchaser's convenience or because of a fundamental breach of Contract by the Purchaser, the Engineer-in-Charge shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, **any amounts to be paid by the Contractor to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges, cost incurred by the Contractor in protecting the Works and leaving the Site in a clean and safe condition, the cost of satisfying all other obligations, commitments and claims that the Contractor may in good faith have undertaken with third Parties in connection with the Contract and that is not covered here,** repatriation of the Contractor's personnel employed solely on the works less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract and less taxes due to be deducted at source as per applicable law.	Please adhere to bid conditions.
17	GCC 49	Rejection of defective Plants/Works	Clause 49.2 – We suggest that any commercial operation of the Plant/Work shall lead to deemed Taking Over of such work.	Please adhere to bid conditions.
18	GCC 52.3	Force Majeure	We request to modify the said sub-clause in order to incorporate that the Contractor is obliged to notify Employer about the force majeure event should be at least 10 days. Further, the time frame for providing certificate from local Chamber of Commerce or the statutory authority should be at least 30 days. Also, the obligation of the Employer to make payments under the contract should not be relieved due to force majeure.	Please adhere to bid conditions.
19	GCC 52.5	Force Majeure	Please add the following at the end of the said sub-clause failing which either Party may terminate the Contract by giving a notice to the other and the Purchaser should be under an obligation to pay all outstanding amounts, paid costs, overhead and profit incurred to the date of termination. 52.6 In the event of termination pursuant to GCC Sub-Clause 52.5, the rights and obligations of the Employer and the Contractor shall be as specified in GCC Sub-Clauses 56.1.2 and 56.1.3.	Please adhere to bid conditions.
20	SCC 2.0 (B)	Completion Schedule - Dismantling, Installation, Testing and Commissioining	Considering the amount of work at site, including the repair of upper bracket, we request NHPC to kindly extend the Duration for the Dismantling, Installation, testing and Commissioining from present 45 days to 90 days per unit.	Please refer amendment

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
21	SCC 4.2.1	Terms of Payment - Supplies	Considering the budget for the scope we request following payment terms. **For Supplies:** - 5% of supply portion with Taxes upon after approval of drawings & 2 Months from LOA - 5% of supply portion with Taxes upon proof of procurement of Major raw material 4 Months from LOA - **80%** of the pro-rata Contract Price of the material supplied subject to documentary evidence against presentation of the following documents to the Consignee: o Evidence of dispatch (GR / LR etc.) o Detailed packing list o Material Dispatch Clearance Certificate along with Test Certificate (if any). o Copy of Insurance Intimation/ Cover. - **10%** of the Contract Price of the material shall be paid upon unit wise taking over of the equipment after successful erection and commissioning.	Please adhere to bid conditions.
22	SCC 4.2.1	Terms of Payment - Supplies	Kindly add the following - Within 1 month from LOA Contractor shall submit the list of drawing and the list of Major items which will be consider for the payment on 2nd and 4th month.	Please adhere to bid conditions.
23	SCC 4.2.1 ii)	Terms of Payment - Supplies	Please delete the last line of from 1st para '' This amount should not exceed of Stator '' As we will sharing the unpriced P.O only.	Please adhere to bid conditions.
24	SCC 4.8.1	Terms of Payment - Supplies	We request NHCP for the following advance payment condition 10 % interest free advance against the submission of equivalent amount BG.	Please adhere to bid conditions.
25	SCC 4.9.1 & 4.9.2	Mode of Payment	We request for All Payments except Advance payment through an irrevocable Letter of Credit (LC) in the form and manner acceptable to Contractor. Employer shall open the LC within 90 days from the date of contract signature having validity of contractual completion period+60 days. The same will be maintained, extended and amended as requested by the contractor. All bank charges related to L/C to be borne by NHPC	Please adhere to bid conditions.
26	SCC 5	Liquidated Damages	We request NHPC to kindly review and reduce the LD charges toward the Dismantling, Installation, Testing and Commissioning. We suggest keeping it in same as in line with LD charges for Supply.	Please adhere to bid conditions.Further, please refer amendment i.r.o LD towards Dismantling, Installation, Testing and Commissioning
27	SCC 6	Contract Drawing	We request NHPC to kindly reduce the no. of Hard copy of final drawing from 10 set to 5 Set & five media flash drive to two.	Please adhere to bid conditions.
28	SCC 7.3	Pre-dispatch Inspection / Dispatch Clearance	Kindly delete the line "Contractor shall provide logistic support for the said inspection" as same shall be in NHPC scope as per the last line of same paragraph.	Please adhere to bid conditions.
29	SCC 7.3	Pre-dispatch Inspection / Dispatch Clearance	Kindly delete the line "No such items shall be …..Unreasonably with held" and add the following If the Employer fails to attend the test and/or inspection, or if it is agreed between the Parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager with a certified report of the results thereof If the Employer fails to respond to the submitted test and inspection reports within fourteen (14) days, the submitted test and inspection reports shall be deemed to be accepted by the Employer and the Contractor shall dispatch the material/ equipment and shall claim the due payment as per the Contract.	Please adhere to bid conditions.
30	SCC 17	Completeness of Offer.	We understand that this is renovation job and Contractor is responsible only for the Scope of Work mentioned in Tender. There may be sone additional scope upon dismantling the units. Therefore, pls delete the last line "No claim for …… not Complete"	Please adhere to bid conditions.
31	SCC 26	Transfer of Ownership	Kindly amend the clause "The transfer of the Ownership of goods passes to the NHPC upon receipt of payment."	Please adhere to bid conditions.

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
32	GTC 4 Cl v of Note	EMD	We understand that bidders with annual turnover of INR 500 Crore or more are not required to submit EMD as per **clause no "v"**-*Sellers/ Service Provider having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s)*	Bid conditions are clear in this regard. Please adhere to bid conditions.
33	Vol - III TECHNICAL SPECIFICATIONS Cl. A.1.v) (Page 2 of 47)	**A.1. Supply and Installation**: v) Supply and installation of two (02) sets of all necessary instrumentations like temperature detectors for online monitoring of stator core (Thermocouples for core temp measurement), windings (Dual core 3 wire Pt100 RTD for winding temperature measurement) (including 03 RTD as spare in each phase for monitoring winding temperature and minimum 09 nos. spare Core TCs)	In all new hydro generators RTDs are normally used for Stator Core temperature measurement. Requesting NHPC to consider RTDs in-place of Thermocouples for stator core temp measurements.	Please Adhere to Tender specification
34	Vol - III TECHNICAL SPECIFICATIONS Cl. A.1.xviii) (Page 3 of 47)	**A.1. Supply and Installation**: xviii) Replacement of necessary O-rings/Cords, gaskets, Victaulic gaskets and other sealing elements required for assembly of UGB housing, air admission valve etc.	We understand that NHPC will share the details of required O-rings, Cords, gaskets & other sealing elements with the successful bidder during design stage.	Shall be finalized during detailed engineering
35	Volume-III Technical specifications Cl. A.2.a) Page: 4 of 47	**Methodology of Dismantling and Erection** The Stator lifting device for the existing Stator is not available with Power Station. All the necessary tools and tackles for this purpose shall be in scope of Contractor.	NHPC need to check and confirm whether existing Stator Core built in 04 parts OR in single continuous ring? Secondly, assembly of Stator Core built in Service- bay area OR in generator Pit?	Refer to Clause- A.2(a)
36	Volume-III Technical specifications Cl. A.2.a) Page: 5 of 47	**Methodology of Dismantling and Erection** EOT cranes (2x 190/30/10MT) can be used for handling of components in powerhouse. However, skilled manpower (operator, rigger etc.) for operation of EOT cranes shall be in the scope of contractor	As NHPC is doing daily maintenance work in the PH with the help of EOT with their skilled manpower (operator, rigger etc.) hence for this refurbishment job, we are recommending skilled manpower (operator, rigger etc.) for EOT in NHPC scope. Apart from that load test, healthiness check / certification of existing EOT before starting of dismantling/assembly work at site shall be in scope of NHPC.	Please Adhere to Tender specification
37	Vol - III TECHNICAL SPECIFICATIONS Cl. A.2.a) (Page 5 of 47)	**A.2. Dismantling & Assembly Works**: a) Rotor pole cleaning may require removal of all the poles from rotor which involves unbolting of pole interconnections.	We understand that scope of rotor pole connection hardware will be in NHPC scope.	Please Adhere to Tender specification
38	Vol - III TECHNICAL SPECIFICATIONS Cl. A.2.c) (Page 6 of 47)	**A.2. Dismantling & Assembly Works**: c) The identified defects/cracks shall be marked and grinding/gouging for welding edge preparation of upper bracket cracks shall be done. TIG welding shall be done for preparation of root layer and then arc welding after first layer of TIG welding shall be done.	Bidder proposes to have final decision on welding process after full inspection during reverse engineering or unit handover.	Please Adhere to Tender specification
39	Volume-III Technical specifications Cl. A.2.c) Page: 6 of 47	**Methodology of Dismantling and Erection** The upper bracket supporting sole plate shall be inspected and restored to the manufacturing dimensions with help of welding, grinding & machining.	As unit is running and can't be dismantled for upper bracket sole plates inspection at this stage and hence Bidders can't be able to perform inspection of upper bracket sole plates at this moment. So, as a Bidder we are proposing the scope for upper bracket sole plates to be decided after thorough inspection during the execution stage and this will be an additional change order for the contractor at the execution stage. Any civil work required to correct the defects of upper bracket sole plates shall be in NHPC scope.	Please Adhere to Tender specification
40	Volume-III Technical specifications Cl. A.2.d) Page: 6 of 47	**Methodology of Dismantling and Erection** New stator assemblies are required to be housed in the existing concrete barrel and shall utilize the existing civil foundation/sole plate for Stator. However, existing sole plates/foundation shall be checked for any cracks/ voids/ defects. Defected sole plates shall be repaired, and voids shall be removed suitably.	As unit is running and can't be dismantled for Stator sole plates inspection at this stage and hence Bidders can't be able to perform inspection of Stator sole plates and check cracks/voids/defects in Stator sole plates at this bidding stage. So, we are proposing the scope for Stator sole plates to be decided after thorough inspection during the execution stage and this will be an additional change order for the contractor at the execution stage. Any civil work required to correct the defects of Stator sole plates shall be in NHPC scope.	Please Adhere to Tender specification

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
41	Volume-III Technical specifications Cl. A.2.j) Page: 6 of 47	**Methodology of Dismantling and Erection** Boxing up of all bearing housing & completion of the balance works of generating unit as per O&M manual of generator.	We understand that O&M manual of the existing machine shall be provided by NHPC to the contractor during the execution stage.	Tender specification is clear in this regard
42	Volume-III Technical specifications Cl. A.2.k) Page: 7 of 47	**Methodology of Dismantling and Erection** After the re-assembly of the entire unit, the activities like levelling, centering, alignment of the generating unit and correction shall be done.	For this, any turbine supplies & consumables that will be required for scope execution will be in NHPC scope and all the relevant drawings & document related to unit alignment will be shared by NHPC during execution stage. Please confirm.	Please Adhere to Tender specification
43	Volume-III Technical specifications Cl. B.3) Page: 8 of 47	**Efficiency** Calculation shall be submitted in respect of losses	For efficiency calculation, Rotor I2R losses corrected for 75 deg.C and Excitation system losses will be required. Kindly requesting NHPC to provide above mentioned losses for efficiency calculation.	Tender specification is clear in this regard
44	Volume-III Technical specifications Cl. C.2) Page: 9 of 47	**Stator Frame** The stator frame shall be designed for lifting the completely built stator including windings and suitable lifting lugs and devices for handling the same shall be provided.	The stator frame shall be designed for lifting the completely built stator including windings and suitable lifting provision and devices for handling shall be as per Bidder's standard design practices.	Tender specification is clear in this regard
45	Volume-III Technical specifications Cl. C.2) Page: 10 of 47	**Stator Frame** Provisions shall be made for connecting, in two locations to the station grounding system, the stator frame, upper bracket, supports and all other metal parts of the generator that require grounding.	As Bidder scope is supply of Stator wound hence grounding provisions shall be limited to Stator Frame only.	Tender specification is clear in this regard.
46	Volume-III Technical specifications Cl. C.4 Page: 11 of 47	**Stator Winding** Neutral leads of all four parallel paths shall be brought out in two separate terminals and shall be connected through interconnecting lead for providing split phase protection. CT for split phase protection shall be installed at interconnecting lead.	Split phase protection is applicable for multi-turn stator coil type winding where unbalanced flow of current measurement is required due to failure of inter-turn insulation of the coil. As roebel bar type winding has been requested in this tender and roebel bar is having single turn only and hence split phase protection is not required and hence requirement to be deleted from the tender specification.	Please Adhere to Tender specification
47	Volume-III Technical specifications Cl. C.5.14 Page: 12 of 47 Volume-III Technical specifications Cl. C.7.a Page: 12 of 47 Volume-III Technical Datasheet, Sr No 21	Maximum permissible absolute temperature of stator winding under maximum power (225MVA) with ambient temperature 40 ºC and cooling water inlet temperature 25 ºC = 120 ºC The stators shall be capable of delivering continuous rated power i.e. 200MVA at the rated power factor (0.9) over the ranges of 90% to 110% of rated voltage and 95% to 103% of rated frequency without exceeding the max permissible temperatures. Maximum stator winding temperature rise (measured by RTD) above ambient air temperature (40 degree C) with the generator delivering maximum rated output (225MVA) continuously while operating at rated power factor over the range of 90% to 110% of rated voltage and 95% - 103% of rated voltage and 98% - 103% of rated frequency = 77 ºC	Discrepancies found regarding Stator winding temperature-rise requirement in mentioned three clauses. NHPC need to clarify about temperature-rise requirement for Stator winding. We hope that Stator winding temperature-rise limits in-line with IEC60034-1 shall be acceptable to NHPC.	Please refer amendment

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
48	Volume-III Technical Datasheet, Sr No 21	Maximum stator winding temperature rise (measured by RTD) above ambient air temperature (40 degree C) with the generator delivering maximum rated output (225MVA) continuously while operating at rated power factor over the range of 90% to 110% of rated voltage and 95% - 103% of rated voltage and 98% - 103% of rated frequency = 77 ºC	In Guaranteed Technical datasheet, two different voltage variation range (90% to 110% of rated voltage and 95% - 103% of rated voltage) have been mentioned. Kindly requesting NHPC to check and correct voltage variation range in technical datasheet.	Please refer amendment
49	Volume-III Technical specifications Cl. C.16 Page: 20 of 47	Vibration monitoring system	From tender specification we understood that online vibration monitoring system for stator core/ frame shall be supplied however online monitoring system for shaft vibration shall be retained. Please confirm	Tender specification is clear in this regard.
50	Volume-III Technical specifications Cl. C.19.1.g Page: 24 of 47	One (1) set of induction brazing equipment	Generally, contractor brings Induction Brazing equipment at site on returnable basis hence requesting NHPC to include same in clause C.19.2 Returnable tools & tackles accordingly.	Tender specification is clear in this regard.
51	Volume-III Technical specifications Cl. C.19.3 Page: 25 of 47	The Tools and Instruments supplied vide clause 19 shall be handed over in newly packed condition.	Contractor should be allowed to use all Tools and Instruments supplied vide clause 19 and handed over in good condition to Purchaser after use at site.	Please Adhere to Tender specification
52	Volume-III Technical Datasheet Sr.No. 11 & 12 Page: 32 of 47	Generator Reactance & Time constants	As major scope for Bidder / Contractor is replacement of Stator wound only (Rotor is going to retain as it is) hence Generator Reactances / Time constants will not be guaranteed values. Bidder / Contractor can mention values of Reactances / Time constants however these values will be for information ONLY.	Shall be finalized during detailed engineering.
53	Volume-III Technical specifications Cl. 9	**Fire Fighting System** "An automatic water sprinkler system complete with the water distributing mains and two ring headers…"	AHPL Understands that the Medium Velocity water sprinkler system (MVWS) is required as per NFPA standards for the generator.	Please refer amendment
54	Volume-III Technical specifications Cl. 9	**Fire Fighting System** In para 1 of clause C.9 following is mentioned ".the generator housing, spray nozzles, thermostatic temperature detectors, smoke sensors, aspirator type smoke detector, control equipment etc. as required for fire detection/protection and extinguishing the fire within the generator shall be provided." But in Para 2 it is mentioned "..The thermostatic temperature detectors and smoke detectors shall be located at strategic points inside the generator housing. The water sprinkler system shall automatically operate on receiving signal from both i.e. on operation of any of the two devices (i.e. heat detector, smoke detector)"	In Para 2 it is mentioned **"..The thermostatic temperature detectors and smoke detectors shall be located at strategic points inside the generator housing. The water sprinkler system shall automatically operate on receiving signal from both i.e. on operation of any of the two devices (i.e. heat detector, smoke detector)"** AHPL understands that the Thermostatic temperature detector (probe type heat) detectors and smoke detectors are required for auto actuation of water sprinkler system and aspirator type smoke detector is not required. Kindly confirm.	Please Adhere to Tender specification.
55	Volume-III Technical specifications Cl. 9	**Fire Fighting System** "Water supply required for the fire protection system at the desired pressure shall be made available from existing fire header just outside the generator barrel."	Kindly provide following • Tapping Pipe size • Pressure at taping point Layout drawing showing the location and arrangement of pipe from where tapping is required	Available details shall be shared during detailed engineering.
56	Volume-III Technical specifications Cl. 9	**Fire Fighting System** "Scope of Contractor shall include replacement of existing generator solenoid operated deluge valve, supply & installation of complete system/piping's from isolating valve upto the fire fighting system"	AHPL understands that the Existing generators already have water-based fire fighting system installed. In that case kindly share following details • Type of water based system already installed • Schematic Diagram of installed Fire Fighting system • Piping layout drawing of the Generator firefighting system. Existing Main Fire Alarm Panel Scheme.	Available details shall be shared during detailed engineering.

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
57	Volume-III Technical specifications Cl. 4	**Stator winding:** Type and arrangement of the line and neutral terminals shall be suitable for termination as per existing arrangement for connecting with the existing isolated phase bus ducts (IPBD). Necessary fasteners/ flexible links/ hardware etc. for the same shall be in the scope of the supplier to make the termination with existing IPBD.	1. Generator and IPBD Existing connection inter phase drawing will be required for clarity of flexible length, hole pitch at IPBD terminal for the terminal connection. (For hardware quantity and flexible).	For better clarity, bidder should visit at site.
58	Volume-III Technical specifications Cl. 4	**Protection CTs** Two sets of Neutral CTs shall be provided at both terminals of neutral winding of each generating unit. Cables from CTs to existing Junction box located outside the generator barrel, Necessary connecting lugs, TBs etc. shall be in the scope of contractor. Details of existing CTs are as below:	We propose all generator CT secondary shall be 5A, CT secondary of ratio of 2.5 is not standard. So, we propose below as follows. • Out of 24nos. 6000/5A CTs PS class shall be 18 Nos. and 6000/5 A metering class 0.2s ,10 VA, 6 Nos. • 300 /5 CTs 2 Nos shall be 5P20 class ,10 VA burden. • Client should confirm cable distance between CTs, relay and metring panel for the sizing of cable. We understand that CTs cable and along with cable tray and accessories is client scope.	Shall be decided during engineering stage. Please Adhere to Tender specification.
59	Volume -III Volume-III Technical specifications Cl. 4	**Stator winding:** Neutral grounding in the present scenario is done through Neutral grounding Transformer existing Neutral grounding Transformer shall be retained, however the interconnecting cable from neutral terminal to NGT shall be replaced	We requested to client that to provide Complete the IPBD layout drawing to understand that Distance between Generator to NGT panel location for cable sizing. 1. Requested to client to provide NGT Drawing required for the of NGT cable connection. 2. We understand that generator line side and neutral side terminal Busbar, insulators support structure, wire mess etc. Shall be retained as it is except CTs and flexible. We requested to provide the generator line and neutral terminal connection drawing.	Tender provisions are clear. Details shall be shared during detailed engineering.
60	General	Healthiness of Cranes	We expect the crane to be Certified for operational safety and functionality, including: • Brake system: Verified for proper functioning to ensure safe lifting and stopping. • Tandem operation: If multiple cranes are used together, they must be tested for synchronized movement. • Micro movement: Precision control for delicate or exact positioning during erection work.	Tender provisions is clear in this regard.
61	General	OEM supplied Special tools	NHPC to confirm that OEM-supplied special tools shall be made available at site prior to commencement of erection activities. These include, but are not limited to: • Stator Wound Lifting Device • Complete Rotor Lifting Device • Rotor Pole Lifting and Tilting Device • Upper Bracket Lifting Slings These tools are essential to ensure safe, efficient, and OEM-compliant handling of critical components during erection and dis-assembly."	Tender provisions is clear in this regard. Please refer as per Clause A-2(a) of Technical Specification.
62	General	Civil structure	Civil structures related to equipment installation shall be in a healthy and acceptable condition prior to commencement of erection activities. This includes verification and readiness of the following foundations and supports: • Stator Foundation • Lower Bracket Foundation • Upper Bracket Foundation These structures must be inspected and confirmed to be free from defects, properly aligned, and capable of bearing the required loads as per OEM and engineering specifications."	Tender provisions are clear in this regard.
63	General	Service Bay space constraint for 4 large size components at same time	The current layout and available space in the service bay area pose significant challenges for simultaneous handling of four large-size components. These constraints may impact the safe execution of critical activities such as: • Component cleaning and inspection • Lifting and tilting operations • Assembly and testing procedures • Movement and positioning of heavy equipment • Transportation of big trailer	Tender provisions is clear in this regard.
64	General	Transportation of Large Trailers in tunnel.	The transportation of large trailers carrying oversized components to the site presents logistical challenges, Availability of turning radius and manoeuvring space within the plant premises and tunnel.	Tender provisions is clear in this regard.

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
65	General	Smoke Extraction Facility Requirement	To comply with EHS (Environment, Health, and Safety) standards, a functional smoke extraction facility must be ensured by NHPC during all cutting operations inside the tunnel. The extraction system should be adequately rated for the volume of smoke generated	Tender provisions is clear in this regard.
66	Volume - IV Quality Test Specification (QTS) Sr. No 1.B, Page 45 of 47	Tests on Copper Conductor for Stator Winding • Dimensional Check of Bare & Covered • Insulation Thickness • Bending, Tensile & Elongation Test • Cure Test (If Applicable) • Break Down Voltage Test. • Resistance Measurement • Insulation Resistance Measurement	As Copper Conductor is out-source material for Bidder hence TC from Supplier shall be acceptable to NHPC.	Please refer amendment
67	Vol - IV MODEL QUALITY ASSURANCE PLAN (MQAP) Cl. B (Page 38 of 47)	**B. In process** iii) Check for Quality of Lamination varnishing, thickness & IR value iv) Specific Total loss v) Magnetic Polarization	Tests mentioned here are applicable for raw material of Stator sheets and hence we are proposing ubmittal of material Test Certificate (TC) to the Purchaser. Hope material TC will be acceptable to NHPC. Please confirm.	Please refer amendment
68	Vol - IV MODEL QUALITY ASSURANCE PLAN (MQAP) Cl. B (Page 38 of 47)	**B. In process** vii) Trail Assembly of Punching (Core assembly dia , height etc) # If stacking done at site then above "CHP " mentioned test shall be performed at site otherwise at manufacturer's works	Hope other alternate method will also be acceptable to ensure dimensions during core assembly work.	Please refer amendment
69	Vol - III – IV QTS clauses Cl. 2 (Page 46 of 47)	**2. Field Tests (Test to be performed at Site, as per applicability of scope of work)** - EL-CID Test for stator core. - Dimensional Checking & Magnetization test of the ready assembled iron core to verify the absence of hot spots (Local overheating).	Both ELCID and Core Induction Tests to be performed to identify hotspots in core and it will not be feasible for Bidders / Contractors to arrange heavy power source for Magnetization test at site hence requesting NHPC to remove Magnetization test requirement from the specification.	Please adhere to Bid Conditions
70	Vol - III – IV QTS clauses Cl. 2 (Page 47 of 47)s	**2. Field Tests (Test to be performed at Site, as per applicability of scope of work)** - Guaranteed core losses of stator and I2R losses (Copper losses) in armature winding at rated voltage and rated frequency shall be derived on calculation basis (In accordance of Technical specification)	Calculated values for Core losses and I2R losses will be acceptable to NHPC OR Bidder have to perform site test for validation of both of these losses?	Please adhere to Bid Conditions
71	SCC A.2(a)	Healthiness of Cranes	Powerhouse cranes must have brake checks, tandem operation, micro-movement; sec doesn't specify crane certification responsibilies. Will NHPC arrange crane certification and ensure tandem operation readiness, or should contractor include it?	Tender provisions is clear in this regard.
72	GTP, Vol III, C.19.1,	OEM supplied special tools	OEM-supplied special tools shall be made available at site prior to commencement of erection activities. These include, but are not limited to: • Stator Wound Lifting Device • Complete Rotor Lifting Device • Rotor Pole Lifting and Tilting Device • Upper Bracket Lifting Slings These tools are essential to ensure safe, efficient, and OEM-compliant handling of critical components during dis-assembly, refurbishment and erection." Please confirm availability and certification status of OEM tools at site. If not available, should contractor include in scope of supplies?	Tender provisions is clear in this regard. Please refer as per Clause A-2(a) of Technical Specification.

Sr. No.	Volume/ Part / Clause No.	Heading of Tender Document	Pre-Bid Queries / Question	NHPC Reply
73	GTP, Vol III, C.2, C.4,	Generator Foundation - Civil structure	Civil structures related to equipment installation shall be in a healthy and acceptable condition prior to commencement of erection activities. This includes verification and readiness of the following foundations and supports: • Stator Foundation • Lower Bracket Foundation • Upper Bracket Foundation These structures must be guaranteed and confirmed to be free from defects, properly aligned, and capable of bearing the required loads as per OEM and engineering specifications. Based on site visit and assesment, the severe cracks observed near stator sole plate foundations and between sole plates foundation areas; tender states NHPC scope for civil work only if defects found. Needs clarification, please confirm whether NHPC will repair all foundation cracks before commencement of contract, or if this shall be in contractor's scope?, Provide structural drawings and load-bearing reports.	Tender provisions are clear in this regard.
74	GTP, Vol III, A.1(ii),	Upper Bracket	Tender requires checking and repair/refurbishment of upper bracket; Site Obs indicate prior repairs on Unit #2, both body and arms. Request to provide repair history and test reports. Please confirm if further repairs (if beyond the welding/grinding/repair) will be treated as additional scope?. Also NHPC to share the latest vibrations data to assertain the causes of cracks in details	Please adhere to bid conditions
75	General	Schedule for work completion in 45 days /Unit	Based on the site visit and assessment of the service bay area, the completing unit erection within the stipulated 45-day period appears challenging due to the parallel execution of existing stator dismantling, new stator installation and rotor refurbishment activities, resulting to limited space and layout constraints. Kindly confirm whether the erection schedule is flexible, and whether delays arising from NHPC-related constraints will be exempted from liquidated damages (LD) calculations.	Please refer amendment
76	GTP, Vol III, A.2(a),	Service Bay space constraint for 4 large size components at same time	Service bay has limited space for 4 large components; tender expects handling of rotor, stator (old and new) and upper bracket simultaneously. Please clarify if NHPC will provide additional staging/storage areas or modify occupancy plan to avoid space conflicts while handling of below critical activities such as: • Component cleaning and inspection • Lifting and tilting operations • Assembly and testing equipments • Movement and positioning of heavy equipment • Transportation of big trailer	Tender provisions is clear in this regard.
77	GTP, Vol III, A.3,	Transportation of Large Trailers in tunnel.	Tender mentions transportation from central stores, however Site observations note large trailer manoeuvrability issues in tunnel. Please confirm turning radius and clearance dimensions in tunnels; will NHPC facilitate modifications or escorts for oversized transport?.	Tender provisions is clear in this regard.
78	General	Smoke Extraction Facility Requirement	To comply with EHS (Environment, Health, and Safety) standards, the functional smoke extraction facility must be ensured during all cutting operations inside the tunnel. The existing extraction system should be adequately rated for the volume of smoke generated. Will NHPC provide smoke extraction system, or shall contractor supply? If contractor, then please specify capacity & filtration requirements.	Tender provisions is clear in this regard.
79	GTP, Vol III, C.14, C.15, C.16	Modbus SCADA	Tender requires Modbus SCADA integration for PD, air gap, vibration systems. Please note that existing SCADA make/version, protocol details, and available spare 1/0 capacity for integration, these details are required to share by NHPC.	Shall be shared during detailed engineering
80	B) Design Consideration	Excitation system	Tender states existing excitation system to be retained. Please provide latest excitation system test data, settings, and interface requirements to ensure compatibility with new stator.	Shall be shared during detailed engineering
81	GTP, Vol III, C.9,	Fire Fighting System	Tender states connection to existing fire header; no detail on pump capacity for new design. Please confirm existing pump capacity & pressure are adequate for new nozzle arrangement; will NHPC upgrade if required?	Shall be shared during detailed engineering
82	QTS – Baseline Data	Baseline operational data	Please confirm if historical baseline data will be provided. No baseline PD, vibration, or air gap data mentioned in SCC. Will NHPC provide baseline data for pre/post- comparison?.	Shall be shared during detailed engineering
83	GTP, Vol III, C.8	Generator Cooler design	Please confirm cooling water silt analysis, flow & pressure data, and acceptable variation range.	Shall be shared during detailed engineering
84	GTP, Vol III, C.19.1, C.19.2	General Tools	Tender specifies some tools to be retained by NHPC, some are returnable. Please provide list of tools/instruments to be retained vs. returned	Please adhere to bid conditions
85	GTP, Vol III, C.18	Storage	Tender listed out large quantity of spares. Will NHPC provide climate-controlled storage for sensitive spares (RTDs, insulation materials, PD couplers) during project?	Please adhere to bid conditions

INFORMATIVE REPLIES

PART-B

Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
1	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	2	COMPLETION PERIOD / SCHEDULE: Total completion period for Engineering, design, manufacture, quality assurance, quality control, shop assembly, shop testing, delivery at site, site storage and preservation, dismantling, installation, testing, commissioning and handing over of stator assemblies to NHPC as defined in the Scope of Work shall be 16 months for 1st Unit and 18 months for 2nd Unit from the date of award of the Contract. This completion period of each unit includes time period of 45 days for each unit for the activities: "Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipments, auxiliaries, instrumentation and all accessories etc. defined under scope of work.	The scope of supply and site works includes reverse enginnering , procurement, manufacturing of critical components, logistic coordination, building of stator, dismantling of existing stator assembly, rotor removal, repair works, erection testing and commisioning of new stators. The timeline mentioned for above scope is very short considering the size and criticality of components. Hence, We request NHPC to kindly amend the timeline as follows:- "Total completion period for Engineering, design, manufacture, quality assurance, quality control, shop assembly, shop testing, delivery at site, site storage and preservation, dismantling, installation, testing, commissioning and handing over of stator assemblies to NHPC as defined in the Scope of Work shall be **19 months for 1st Unit and 22 months for 2nd Unit** from the date of award of the Contract. This completion period of each unit includes time period of **60 days** for each unit for the activities: "Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipments, auxiliaries, instrumentation and all accessories etc. defined under scope of work" Please accept.	Please refer amendment
2	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	5	LIQUIDATED DAMAGE: The liquidated damages @ Rs. 15.06 Lakh per day shall be levied for individual generating unit for delay attributable to Contractor beyond stipulated period for Dismantling, Installation, Testing & Commissioning Part as per Sl. No. 2 B of SCC. The aggregate amount of such liquidated damages for individual generating unit shall in no case exceed 5% of Contract Price and aggregate amount of liquidated damages for both generating units shall not exceed 10% of the Contract Price.	The rate od LD is very high, therefore we request NHPC to amend the clause as follows: The liquidated damages @ **Rs. 15.06 Lakh per week** shall be levied for individual generating unit for delay attributable to Contractor beyond stipulated period for Dismantling, Installation, Testing & Commissioning Part as per Sl. No. 2 B of SCC. The aggregate amount of such liquidated damages for individual generating unit shall in no case exceed 5% of Contract Price and aggregate amount of liquidated damages for both generating units shall not exceed 10% of the Contract Price. Kindly Accept	Please adhere to bid conditions.
3	Volume 0 ,Qualification Criteria	FORM – II	PARENT/ HOLDING COMPANY AGREEMENT	The liability of the parent company under the parent/holding agreement is not mentioned. We understand the aggregate liability of the parent/holding company and the contractor under the parent/holding agreement shall be read in conjunction with the SCC Clause no. 34 (Limitation of Liability). This has recently been confirmed & clarified by NHPC and other government entities like SJVNL for similar and/or bigger capacity projects. An extract of the reply given by NHPC on this clause in the Teesta-V-GIS tender is attached as per Annexure-A. Please confirm.	Confirmed.
4	Volume-II A, GCC	xxx	Definition Commencement /Effective Date of Contract (New Definition)	For Clarity ,we request M/s NHPC to kindly incorporate the following definitions of effective date and commencement date. 1. Effective date shall be the date of issuance of Letter of Award to the contractor 2. Commencement date shall be the latest of the following events. a). Date of signing of the contract agreement. b). Receipt of Interest free advance in line with the payment terms. c). Opening of confirmed and irrevocable letter of credit (LC) within 30 days of Commencement date Please accept	Please adhere to bid conditions.

Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
5	Volume-II A, GCC	14.1	NEGLIGENCE 14.1 If the Contractor neglect to manufacture plant & equipments or execute the work in terms of the Contract as the case may be, with due diligence and expectation, or refuse or neglect to comply with any reasonable orders given to him in writing by the Engineer-in-Charge in connection with the work, or contravene any provisions of Contract, the Purchaser may give seven days' notice in writing to the Contractor to make good the failure, neglect or contravention complained of within reasonable time as specified by Engineer-in-charge. If the Contractor fail to comply with the notice and in the event of failure, neglect, or contravention capable of being made good within that time, then and in such a case the Purchaser shall forthwith perform such work as the Contractor may have neglected to do, or if the Purchaser shall think fit, it shall be lawful for him to take the work wholly, or in part, out of the Contractor's hands and give it to another person(s) or Contractor at a reasonable price or provide any other materials, tools, tackle, or labour for the purpose of completing the work, or any part thereof, and in that event the Purchaser shall, without being responsible to the Contractor for fair wear and tear of the same, have the free use of all the materials, tools, tackles, or other things which may be on the site, for use at any time in connection with the work, to the exclusion of any right of the Contractor over the same, and the Purchaser shall be entitled to retain and apply any balance which may be otherwise due on the Contract by him to the Contractor or such part thereof as may be necessary, to the payment of the cost of executing such work as aforesaid.	We request M/s NHPC to kindly amend the clause as follows:- If the Contractor neglect to manufacture plant & equipment's or execute the work in terms of the Contract as the case may be, with due diligence and expectation, or refuse or neglect to comply with any reasonable orders given to him in writing by the Engineer-in-Charge in connection with the work, or contravene any provisions of Contract, the Purchaser may give **thirty days'** notice in writing to the Contractor to make good the failure, neglect or contravention complained of within reasonable time as specified by Engineer-in-charge. If the Contractor fail to comply with the notice and in the event of failure, neglect, or contravention capable of being made good within that time, then and in such a case the Purchaser shall forthwith perform such work as the Contractor may have neglected to do, or if the Purchaser shall think fit, it shall be lawful for him to take the work wholly, or in part, out of the Contractor's hands and give it to another person(s) or Contractor at a reasonable price or provide any other materials, tools, tackle, or labour for the purpose of completing the work, or any part thereof, and in that event the Purchaser shall, without being responsible to the Contractor for fair wear and tear of the same, have the free use of all the materials, tools, tackles, or other things which may be on the site, for use at any time in connection with the work, to the exclusion of any right of the Contractor over the same, and the Purchaser shall be entitled to retain and apply any balance which may be otherwise due on the Contract by him to the Contractor or such part thereof as may be necessary, to the payment of the additional cost if any of executing such work as aforesaid. Please accept	Please adhere to bid conditions.
6	Volume-II A, GCC	15.1	COMPLIANCE WITH REGULATIONS 15.1 The Contractor shall comply with all applicable laws, ordinances, codes, approved standards, rules and regulations and shall procure all necessary municipal and government permits, licenses etc. at his own cost. The Contractor shall keep the Purchaser and Engineer-in-Charge harmless as a result of any infractions thereof.	The said clause is contradictory with clause 30.4.3 as below " employer responsibility" All permits, approvals and licenses shall be in employer's scope as mentioned in clause 30.4.3, Hence it is requested to delete the same.	Please adhere to bid conditions.
7	Volume-II A, GCC	30.2	RESPONSIBILITY OF THE CONTRACTOR AND EMPLOYER 30.2 The Purchaser shall have the right to require the Contractor to make any such change in the designs which may be necessary in the opinion of the Engineer-in-Charge to make the Plant and Works as the case may be, conform to the provisions & contents of the specification, without any extra cost to the Purchaser. Approval by the Engineer-in-Charge or by the representative of the Purchaser, to the Contractor's or sub-contractor's drawings, designs, materials or of other parts of the works involved in the Contract, or of test carried out either by the Contractor or by the Sub-Contractor shall not relieve the Contractor of any requirements/obligations of the specification or of the responsibility/obligation for the correctness of the Contractor's design and drawings. Any manufacture or the work performed prior to the approval of drawings and tests will be at the risk and cost of the Contractor.	Any such changes in design which leads to changes in cost shall cover under clause no .13 of GCC (Power to vary or omit work). Please Confirm.	Bid provisions are clear.Please adhere to bid conditions.
8	Volume-II A, GCC	39	INSURANCE:	We understand Act of God (AOG) under insurance is excluded from Contractor scope and will be in NHPC scope. Please Confirm	Bid provisions are clear.Please adhere to bid conditions.
9	Volume-II A, GCC	44.2	PAYMENT UPON TERMINATION 44.2 If the Contract is terminated at the Purchaser's convenience or because of a fundamental breach of Contract by the Purchaser, the Engineer-in-Charge shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the works less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract and less taxes due to be deducted at source as per applicable law.	We request M/s NHPC to amend the clause as under:- If the Contract is terminated at the Purchaser's convenience or because of a fundamental breach of Contract by the Purchaser, the Engineer-in-Charge shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment **along with termination cost (if any**), repatriation of the Contractor's personnel employed solely on the works less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract and less taxes due to be deducted at source as per applicable law. **Further all submitted Bank guarantees submitted by the contractor shall be released.** Please accept	Bid provisions are clear.Please adhere to bid conditions.

Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
10	Volume-II A, GCC	46.1	REGULATIONS OF LOCAL AUTHORITIES: 46.1 The Purchaser shall during the currency of this Contract and in respect of all matters arising out of performance thereof, assist the Contractor in the service of all notices and the obtaining of all consents, approval and permission required in accordance with the regulations and by laws of any local or other authority, if so necessary and applicable to the works, and also in the obtaining of right of way and like facilities from private parties. The Purchaser shall not, however, be responsible for any delay on this account and the Contractor shall not be absolved of any of his contractual obligation whatsoever in this regard.	We request M/s NHPC to add the following provisions in the clause:- Any delay in obtaining of all consents, approval and permission required in accordance with the regulations and by laws of any local or other authority, then Contractor shall have right to claim extra time on mutually agreed conditions basis. Please accept	Please adhere to bid conditions.
11	Volume-II A, GCC	52.2	FORCE MAJEURE e) Acts of God such as earthquake (above magnitude of 7 Richter Scale),	Kindly remove the text within brackets **i.e. "above magnitude of 7 of Ritcher Scale".** Please confirm.	Please adhere to bid conditions.
12	Volume-II A, GCC	52.3	FORCE MAJEURE Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable, as aforesaid, thereby shall notify the other party in writing by registered notice within 72 (seventy two) hours of the alleged beginning and ending thereof	We request M/s NHPC to kindly amend the clause as follows:- Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable, as aforesaid, thereby shall notify the other party in writing by registered notice within Seven (7) days of the alleged beginning and ending thereof. Please accept our request..	Please adhere to bid conditions.
13	Volume-II A, GCC	56.1.1	Termination for Employer's Convenience The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GCC Sub-Clause 56.1	We request M/s NHPC to kindly amend the clause as follows as it is generally followed. The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination of **thirty (30) days** that refers to this GCC Sub-Clause 56.1 Please accept	Please adhere to bid conditions.
14	Volume-II A, GCC	56.2.1	Termination for Contractor's Default: 56.2.1 The Employer, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination and its reasons there for to the Contractor, referring to this GCC Sub-Clause 56.2:	We request M/s NHPC to kindly amend the clause as follows:- The Employer, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination o**f thirty (30) days** and its reasons there for to the Contractor, referring to this GCC Sub-Clause 56.2. Please accept	Please adhere to bid conditions.
15	Volume-II A, GCC	56.2.2	Termination for Contractor's Default: (d) Refuses or is unable to provide sufficient materials, services or labor to execute and complete the Facilities in the manner specified in the program furnished under GCC Clause 17.0 at rates of progress that give reasonable assurance to the Employer that the Contractor can attain Completion of the Facilities by the Time for Completion as extended then the Employer may, without prejudice to any other rights it may possess under the Contract, give a notice to the Contractor stating the nature of the default and requiring the Contractor to remedy or to take steps to remedy the same within fourteen (14) days of its receipt of such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the Contractor that refers to this GCC Sub-Clause 56.2.	We request M/s NHPC to amend the clause as follows:- Refuses or is unable to provide sufficient materials, services or labor to execute and complete the Facilities in the manner specified in the program furnished under GCC Clause 17.0 at rates of progress that give reasonable assurance to the Employer that the Contractor can attain Completion of the Facilities by the Time for Completion as extended then the Employer may, without prejudice to any other rights it may possess under the Contract, give a notice to the Contractor stating the nature of the default and requiring the Contractor to remedy or to take steps to remedy the same within **thirty (30) days** of its receipt of such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the Contractor that refers to this GCC Sub-Clause 56.2. Please accept	Please adhere to bid conditions.

Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
16	Volume-II A, GCC	56.2.4	Termination for Contractor's Default: 56.2.4 The Employer may enter upon the Site, expel the Contractor, and complete the Facilities itself or by employing any third party. The Employer may, to the exclusion of any right of the Contractor over the same, take over and use with the payment of a fair rental rate to the Contractor, with all the maintenance costs to the account of the Employer and with an indemnification by the Employer for all liability including damage or injury to persons arising out of the Employer's use of such equipment owned by the Contractor and on the Site in connection with the Facilities for such reasonable period as the Employer considers expedient for the supply and installation of the Facilities. Upon completion of the Facilities or at such earlier date as the Employer thinks appropriate, the Employer shall give notice to the Contractor that such Contractor's Equipment will be returned to the Contractor at or near the Site and shall return such Contractor's Equipment to the Contractor in accordance with such notice. The Contractor shall thereafter without delay and at its cost remove or arrange removal of the same from the site.	We request M/s NHPC to incorporate the following provisions in the clause:- The Employer may enter upon the Site, expel the Contractor, and complete the Facilities itself or by employing any third party. The Employer may, to the exclusion of any right of the Contractor over the same, take over and use with the payment of a fair rental rate to the Contractor, with all the maintenance costs to the account of the Employer and with an indemnification by the Employer for all liability including damage or injury to persons arising out of the Employer's use of such equipment owned by the Contractor and on the Site in connection with the Facilities for such reasonable period as the Employer considers expedient for the supply and installation of the Facilities. Upon completion of the Facilities or at such earlier date as the Employer thinks appropriate, the Employer shall give notice **of 30 days** to the Contractor that such Contractor's Equipment will be returned to the Contractor at or near the Site and shall return such Contractor's Equipment to the Contractor in accordance with such notice. The Contractor shall thereafter without delay and at its cost remove or arrange removal of the same from the site. Please accept	Please adhere to bid conditions.
17	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	4.81	Advance Payment / Advance Security 4.8.1 (i) In case successful Contractor desires to have some advance payment, a maximum of 10% of contract price (for supply portion only of Price Schedule) may be released after signing of Contract Agreement and submission of Bank Guarantee. Such advance payment shall be interest bearing which shall be at Long Term (3 years) MCLR of SBI plus 150 basis points above MCLR as on 28 days prior to the last date of Bid Submission calculated on daily basis.	We request NHPC to modify this clause as under:- In case successful Contractor desires to have some advance payment, a maximum of 10% of contract price (for supply portion only of Price Schedule) may be released after signing of Contract Agreement and submission of and submission **of Intreset bearing** Bank Guarantee. Such advance payment which shall be at Long Term (3 years) MCLR of SBI plus 150 basis points above MCLR as on 28 days prior to the last date of Bid Submission calculated on daily basis. Please accept	Please adhere to bid conditions.
18	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	4.9.1	Mode of Payment 4.9.1 All the above payments shall be made through RTGS/NEFT from Paying Authority at Power Station after submission of requisite documents. However, if chosen by the Contractor, payment under sub-clause 4.2.1 (iii) & (iv) may be released at the request of Contractor through Letter of Credit (L/C) provided all bank charges related to L/C are borne by the Contractor.	We request to amend the clause as follows:- All supply payments shall be released (except advance payment if applicable) shall be made through irrevocable, transferable, confirmed, and at sight Letter of Credit issued by Scheduled Bank/ first-class bank. All costs of establishment of L/C shall be borne by the Employer. Please accept	Please adhere to bid conditions.
19	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	4.9.2	For L/C payments, the payments shall be arranged through irrevocable Letter of Credit opened in a designated Bank (Issuing bank), which shall make payments to the Contractor upon presentation of documents against conditions specified in the Letter of Credit to the Negotiation bank of the Contractor. The contractor shall provide quarterly cash flow statement as per payment schedule two months in advance to the Engineer-in-charge to facilitate opening/extension of L/C in time. The amount of L/C shall be equivalent to the projected quarterly cash flow of the Contractor. The L/C for the said amount shall be opened by the Employer thirty (30) days prior to the scheduled date of 1st payment under the Contract against the L/C and shall be maintained thereafter by extending the same on quarterly basis as per the projected cash flow of the Contractor.	We understand An irrevocable Letter of Credit (LC) is opend for total supply value (excluding advance paymet) plus corresponding GST, as applicable) shall be established from a reputed bank within 30 days prior to the scheduled date of 1st payment under the Contract against the L/C and shall be maintained thereafter by extending the same on quarterly basis as per the projected cash flow of the Contractor. Please accept	Please adhere to bid conditions.
20	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	5	LIQUIDATED DAMAGE: Contractor is advised to take all efforts to complete the Supply, Erection Testing and Commissioning work in stipulated time as provided in this Contract to the satisfaction of Engineer-in-charge. If the Contractor fails to attain completion of supply part of individual generating unit within the stipulated completion period as per Sl. No. 2 A of SCC, the Contractor shall pay to the Employer liquidated damages equal to the amount computed @ ½ (half) percent per week or part thereof of Contract Price of supply part of individual generating unit.	We request NHPC to modify this clause as under:- Contractor is also advised to take all efforts to complete the Supply, Erection Testing and Commissioning work in stipulated time as provided in this contract ~~to the satisfaction of Engineer-in-charge .~~ If the Contractor fails to attain completion of supply part of individual generating unit within the stipulated completion period as per Sl. No. 2 A of SCC **for the reasons attributable to the Contractor**,, the Contractor shall pay to the Employer liquidated damages equal to the amount computed @ ½ (half) percent per week or part thereof of Contract Price of supply part of individual generating unit. We understand that the LDs shall be applicable on Contract Price less the taxes and duties. Please accept	Please adhere to bid conditions.

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Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
21	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	4.4.1	4.4.1 When the Contractor is notified by the Engineer-in-charge that he will be unable to proceed with the activities and obligations pursuant to above 4.2.2	Please include additional condition: "Defect Liability Period shall stand reduced to the extent of delay in start of pre-commissioning or guarantee test." Please accept	Please adhere to bid conditions.
22	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	35	Warranty For a period of 24 (Twenty Four) calendar months commencing upon the setting to work of Plant/ commissioning	We request M/s NHPC to kindly amend the clause as follows For a period of 24 (Twenty Four) calendar months commencing upon the setting to work of Plant/ commissioning **or 30 (months) from the date of reciept of material receipt of equipment of Individual units at site whichever is earlier.** Please accept	Please adhere to bid conditions.
23	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	35.2	If it becomes necessary for the Contractor to replace or renew any defective parts of the Plant under this clause, the provisions of the first para, of this clause shall apply to the parts of the plant so replaced or renewed until the expiration of six (6) months from the date of such replacement or renewal or until the end of the above mentioned period of Thirty Six (36) months, whichever may be later.	If it becomes necessary for the Contractor to replace or renew any defective parts of the Plant under this clause, the provisions of the first para, of this clause shall apply to the parts of the plant so replaced or renewed until the expiration of six (6) months from the date of such replacement or renewal or until the end of the above mentioned period of **Twenty** **(24) months,** whichever may be **later. In no event warranty period of repair or replace part shall be exceed from 30 months for Orginal date start of waranty period.** Please accept	Please adhere to bid conditions.
24	Volume-II B, SCC	Form -2 (Bank Guarantee)	Bank Guarantee Format,	We request NHPC to allow adding following text in the BG format. As suggested by our bank : **"This guarantee is non-assignable.** **This bank guarantee shall be governed by the laws of India and competent courts in New Delhi shall have exclusive jurisdiction."** Please confirm.	Please adhere to bid conditions.
25	General		BOCW (Building and other construction workers) Cess	As the tender is silent against BOCW cess applicability for the subject project. Moreover, as our scope of work is limited to Replacement of Stator Assembly in Two (02) Nos Generating Units at Chamera-1 Power Station, Khairi, Chamba, Himachal Pradesh, and hence we understand that the BOCW Cess is not applicable as per the judgment of the Supreme Court. Please confirm.	Please adhere to bid conditions.
26	General		Asbestos Handling	Kindly confirm that the identification, safe removal, packing, transportation, and disposal of any asbestos-containing materials at site will be entirely arranged and executed by the Customer/Owner through a licensed asbestos abatement agency. Please also confirm that the Contractor's scope will commence only after the asbestos removal is fully completed, and the work area is certified safe for execution by an authorized agency.	Please adhere to bid conditions.
27	Volume 0, ITB, Page 24 to 59	Form-3C PARENT/ HOLDING COMPANY AGREEMENT	The liability of the Parent company under the Parent/ Holding Agreement is not mentioned. We understand the aggregate liability of the Parent/Holding company and the Contractor under the Parent/ Holding Agreement shall be read in conjuction with the GCC Clause no. 62. Please confirm. This has recently been confirmed & clarified by NHPC and other Govt. entities like SJVNL for similar and/or bigger capacity projects. Please confirm.	Confirm	Bid provisions are clear .

Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
28	A) Detailed Scope of Contractor:	Page 1,2 & 3	A.1. Supply and Installation:	We request you to provide following drawings: 1.A/W Coolers interface drawing and data sheet 2.Existing Brake Dust Collection system drawing 3.Existing Stator Bar drawing 4.Existing winding diagram 5.Existing Stator Terminal dimensional drawing. 6.Existing Stator Terminal connection with IPBD details 7.Existing Upper and Lower Air Guide drawings 8.Existing Brake and Jack Cylinder drawings 9.Existing Oil Mist Extraction System drawing 10.Bearing and Bracket drawing 11.Some of details in measurements are needed to perform at execution stage. **Note:** Contractor will be allowed to collect the details/as-built information during project execution. This will be typically five(5) working days. Kindly confirm.	The available drawing/ details shall be shared during detailed engineering stage. Presently Oil mist extraction system is not available. For better clarity, bidder should visit at site and other details to be incorporated during detailed engineering.
29	A.2. Dismantling & Assembly Works:	Page 3	Dismantling & withdrawal of the Rotor along-with stub shaft, Upper Guide Bearing, Slip ring etc. of two (02) nos. of generating units and their placement at service bay, as per applicability.	We request NHPC to kindly allow the contractor to perform the cleaning activities of the rotor components at pit itself (in Situ) without rotor removal to optimize the project time line.	Adhere to tender specification.
30	A.2. Dismantling & Assembly Works:	Page 3	**Methodology of Dismantling and Erection: -** . The Stator lifting device for the existing Stator is not available with Power Station, however one set of rotor lifting device is available with Power Station. Considering above the dismantling methodology of existing stator assembly shall be proposed by contractor for approval of EIC . All the necessary tools and tackles for this purpose shall be in scope of contractor.	We understand that all the devices required for handling the Rotor complete are available at site and same shall be used for handling the Rotor assembly (if required). Please confirm. Please also provide the list of available Tools and devices which can be used during Erection activities.	Tender provisions are clear in this regard.
31	A.2. Dismantling & Assembly Works:	Page 5	d). However, existing sole plates/ foundation shall be checked for any cracks/ voids/ defects. Defected sole plate shall be repaired and voids shall be removed suitably. ….....	Minor defect can be repaired only, if there is any major defect or crack (observed during disassembly) in existing sole plate same shall be replaced/repaired by NHPC .	Please adhere to tender specification.
32	C.5. Rating and Functional Characteristics	Page 11	15. Existing Losses details : • Core Losses — 611 KW • I^2R Losses in Armature winding including additional losses corrected for 75 deg C — 570 KW • Windage and Friction losses — 1215 KW • Stray Losses — 291 KW	Based on limited scope of supply, core loss and I^2R at 75°C All other losses shall be taken from existing data sheet which are provided in technical specification. Please confirm.	Please adhere to tender specification.
33	C.17. Documentation (Drawings, calculations & reports)rs	Page 20 & 21	C.17. Documentation (Drawings, calculations & reports) ..... c) The Contractor shall submit the design calculation covering at least the following, for review/acceptance. i) Electrical calculations and characteristics including magnetic circuit. ..... iv) Calculation of guaranteed losses v) Capability curve for the generator vi) Calculation to prove short circuit withstand capability vii) The Contractor shall also provide other calculations	i)Generator Data sheet with required parameters shall be provided for approval. ii) Iron loss and Load losses of Stator shall be guaranteed and shall be provided in Generator data sheet. All other losses shall be taken from existing data sheet shall be mentioned in Generator data sheet. iii) Generator Data sheet with required parameters shall be provided for approval. Please confirm.	Please adhere to tender specification.
34	C. 19.1. Special tools	Page 23	g) One (1) set of induction brazing equipment suitable for interconnection of windings of Stator under supply. The brazing machine shall have Continuous output power≥ 50 KW, Maximum Output Power ≥ 80kW with 0.5 as duty factor and 10 minutes as maximum cycle time, Output Frequency Range: 10 to 25 KHz, Output Power regulation range: 10-100%, ...	We recommend that: - (i)Contractor will bring the brazing machine for site activities and will take-return after the site brazing works are finished. Kindly accept. (ii)The capacity of the Brazing machine will be based on the contractor/OEM design requirements and the same will be made available at site. Kindly accept.	Please refer amendment

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Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
35	VOLUME-III Technical Specifications & GTP	A) Detailed Scope of Contractor: A.1 Supply and	x) Supply, installation testing & commissioning of two (02) sets of brake dust collection system including dismantling and removal of existing brake dust collection system.	We understand that the feeder for Brake dust collector is present at Unit auxiliary board. Type of the feeder, feeder rating details are requested. Please provide	Feeder for Brake dust collector at Unit Auxiliary Board is available. Rating is 3 phases, 415V, 50Amp.
36	VOLUME-III Technical Specifications & GTP	A) Detailed Scope of Contractor: A.1 Supply and	xii) Supply, installation testing & commissioning of two (02) sets of oil mist extraction system for extraction of oil mist from existing Thrust Bearing housing.	We understand that the feeder for Oil mist extraction system is present at Unit auxiliary board. Type of the feeder, feeder rating details are requested. Please provide	Available spare Feeder shall be used for Oil mist extraction system at Unit Auxiliary Board. Rating is 3 phase, 415V, 50Amp.
37	VOLUME-III Technical Specifications & GTP	A) Detailed Scope of Contractor: A.1 Supply and Installation:	xvi) Supply & installation of two (02) sets of interconnecting control, protection & instrumentation cables upto JBs installed outside Generator barrel for Stator, neutral interconnecting cable upto NGT along with cable trays(inside Generator barrel).	Please specify the requirment of the Voltage class, Insulation material, type of conductor, conductor material minimum crossection area, Armoured/ unarmoured cable for the cable to be supplied for control, protection and instrument application. Please specify	Shall be finalized during detailed engineering.
38	VOLUME-III Technical Specifications & GTP	C) Design and Construction, C.1.Standards	C.4. Stator winding: Neutral grounding in the present scenario is done through Neutral grounding Transformer existing Neutral grounding Transformer shall be retained, however the interconnecting cable from neutral terminal to NGT shall be replaced.	Requested to provide the exisitng interconnecting cable details. Voltage rating, Insulation material, Conductor material, Conductor crossectional area, Armoured/ Unarmured cable, Tentative length of the cable as per site equipment layout. Please provide	Shall be finalized during detailed engineering.
39	VOLUME-III Technical Specifications & GTP	C) Design and Construction	C.13 Protection CTs, Accuracy class C400, Voltage class 600V.	We understand the new protection CT are of PS class. Please provide the tentative length for the CT wire from CT to protection relay for ps class CT Knee point selection. Please share also the exisitng CT short time current rating. Please confirm and provide	Shall be finalized during detailed engineering.
40	QAP-Model: Generator -Stator Punching	Page 3 of 9	B- In Process:- iv) Specific Total Loss v) Magnetic Polarization vi) Waviness & Packet Size & Height	It is to be noted that Specific Total Loss and Magnetic Polarization are part of Raw material test are are not required in process stage. Waviness & Packet Size & Height - are part of Assembly stage which is to be conduct at site and will be covered under part of FQP. Please confirm	Please refer amendment
41	QAP-Model		Page No 2 of 9, 5 of 9 QAP portion of Stator Frame & Stator Winding Bar are missing in received BID Documents,	Page No 2 of 9, 5 of 9 QAP portion of Stator Frame & Stator Winding Bar are missing in received BID Documents Please provide.	Please refer amendment
42	QAP-Model: Generator -Stator Punching	Page 4 of 9	D Core Assembly i) Dimension Check (Check of core for waviness,core dia,packet size and Height after assembly) ii) Core Loss Test and Hot Spot detection	It is to be noted that these test are to be conduct at site after assembly and same shall be covered in FQP. Please confirm	Please refer amendment
43	Generator-Stator Winding Bars	Page 6 of 9	3) Final Inspection - Stator Winding Bar iii) IR after HV Test	Please note that IR test of individual bar is not feasible at shop floor . However IR test is conducted at site and same will be part of Field Quality plan. Please confirm	Please adhere to bid conditions
44	Generator-Stator Winding Bars	Page 6 of 9	3) Final Inspection - Stator Winding Bar iv) Impulse Voltage withstand Test	Impulse Voltage Test:This is type test of insulation.Please confirm if Test certificate of earlier executed test is acceptable. Kindly confirm	Please adhere to bid conditions
45	VOLUME-III Technical data sheet (GTP)	Sl. No. 6	Short circuit Ratio: Not less than 1.3	Make SCR>1.1	Please refer amendment.
46	VOLUME-III Technical data sheet (GTP)	Sl. No. 17 (iv)	Air water cooler water chamber SS304	Any specific reason to ask for SS304. As per our standard supply we give water chamber of carbon steel IS 2062 E250 BR.It is then duely painted with epoxy paint and Black coaltar in wet area.	Please Adhere to Tender specification

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Sl.No.	Volume/ Part	Clause No. (s)	Tender Provision	Pre-Bid Queries / Question	NHPC reply
47	VOLUME-III Technical data sheet (GTP)	sl. No. 21	Maxiimum stator winding temperature rise (measured by RTD) above ambient air temperature (40 degree C) with the generator delivering maximum rated output (225MVA) continuously while operating at rated power factor over the range of 90% to 110% of rated voltage and 95% - 103% of rated voltage and 98% - 103% of rated frequency is 77°C	Temperature rise is 80°K not 77°K.	Please refer amendment.
48	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	2	COMPLETION PERIOD / SCHEDULE: Total completion period for Engineering, design, manufacture, quality assurance, quality control, shop assembly, shop testing, delivery at site, site storage and preservation, dismantling, installation, testing, commissioning and handing over of stator assemblies to NHPC as defined in the Scope of Work shall be 16 months for 1st Unit and 18 months for 2nd Unit from the date of award of the Contract. This completion period of each unit includes time period of 45 days for each unit for the activities: “Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipments, auxiliaries, instrumentation and all accessories etc. defined under scope of work.	The timelines given for "Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipments, auxiliaries, instrumentation and all accessories etc" is very short and not possible to adhere to. Hence we request NHPC to kindly amend the clause as follows:- "Total completion period for Engineering, design, manufacture, quality assurance, quality control, shop assembly, shop testing, delivery at site, site storage and preservation, dismantling, installation, testing, commissioning and handing over of stator assemblies to NHPC as defined in the Scope of Work shall be 16 months for 1st Unit and 18 months for 2nd Unit from the date of award of the Contract. This completion period of each unit includes time period of **75 days** for each unit for the activities: “Dismantling of existing system, lowering of built up Stator Assembly, Erection, Testing and Commissioning of newly supplied Stator Assembly including all associated equipments, auxiliaries, instrumentation and all accessories etc. defined under scope of work" Please accept.	Please refer amendment.
49	VOLUME-II B SPECIAL CONDITIONS OF CONTRACT (SCC)	5	LIQUIDATED DAMAGE: The liquidated damages @ Rs. 15.06 Lakh per day shall be levied for individual generating unit for delay attributable to Contractor beyond stipulated period for Dismantling, Installation, Testing & Commissioning Part as per Sl. No. 2 B of SCC. The aggregate amount of such liquidated damages for individual generating unit shall in no case exceed 5% of Contract Price and aggregate amount of liquidated damages for both generating units shall not exceed 10% of the Contract Price.	The rate of LD is very high and not in line with earlier published tenders of NHPC for similar scope, therefore we request NHPC to amend the clause as follows: The liquidated damages @ **0.5% per week or part thereof of contract price of service part of individual generating unit** for delay attributable to Contractor beyond stipulated period for Dismantling, Installation, Testing & Commissioning Part as per Sl. No. 2 B of SCC. The aggregate amount of such liquidated damages for individual generating unit shall in no case exceed 5% of Contract Price and aggregate amount of liquidated damages for both generating units shall not exceed 10% of the Contract Price. Kindly Accept. Please find the enclosed clause regarding LDs for Uri PS for similar scope.	Please adhere to bid conditions.

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PART-C

S. N.	Volume/ Part / Clause No.	Tender Provision	Pre-Bid Queries / Question	NHPC REPLY
1	GEM Bid Document	Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:	We kindly request you to change the applicability of Reverse Auction, i.e. RA shall be done only if the prices quoted by the L1 bidder is more than 107.5% of Estimated Bid Value. The same practise was previously followed by NHPC.	Please adhere to Tender Specification.
2	Volume – II B/ Special Conditions of Contract	4.0 TERMS OF PAYMENT	We kindly request you to consider provision of 10% of the contract price as interest free advance along with LOA on submission of ABG of equivalent value.	Please adhere to Tender Specification.