

BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS
ITEM NAME: GROUNDING BRUSH MONITOR, POWER SUPPLY 240VAC

PROJECTS- SIPAT, UKAI & SINGARENI

1. SCOPE OF ENQUIRY:

Sl. No.	Material Code & Item Description	Total Qty.	LOT Quantity & Delivery schedule
1.	W90418110018 GROUNDING BRUSH MONITOR, POWER SUPPLY 240VAC(+10%, -10%) 50H Z, INPUT 0-20VAC/DC, 0-5AMPS AC/DC., ALONG WITH DETECTOR UNIT	3 No	UKAI: 1 No -26/11/2026 SINGARENI: 1 No -29/07/2027 SIPAT: 1 No -05/08/2027
2.	W90418110026 DRG: - REV:00 COMMISSIONING OF GROUNDING BRUSH MONITORING SYSTEM SPEC: TG60461 REV: 04	3 Set	UKAI: 1 ST – On Intimation SINGARENI: 1 ST - On Intimation SIPAT: 1 ST - On Intimation

2. Project Details with consignee address:

Project Name	SIPAT STAGE-III (1X800 MW)
Consignee Address	Head of Project Sipat Super Thermal Power Project, Stage-III (1X800 MW) P.O : Ujjwal Nagar, District : Bilaspur Chhattisgarh - 495555
Project Name	UKAI
Consignee Address	CHIEF ENGINEER (Gen.) GUJRAT STATE ELECTRICITY CORPORATION LIMITED UKAI R&M STORE, THERMAL POWER STATION UKAI DIST-TAPI P.O.UKAI DAM,TAL-FORT-SONGADH PIN- 394680 GUJRAT
Project Name	1X800MW SINGARENI TPP SCCL
Consignee Address	The Project Manager, 1x800MW Singareni Thermal Power plant Stage-2 Pegadapally (Village), Jaipur (Mandal), Mancherial (Dist), 504216 Telangana

3.BUYERS SPECIFIC ADDITIONAL TERMS & CONDITIONS IN ADDITION TO GTC

Sl. No.	Terms	Description	Supplier confirmation
1.	Documents Checklist:	<p>Please submit signed and stamped copy of your offer on each page along with following documents;</p> <ul style="list-style-type: none"> • Buyer Specific T&C. • Technical PQR & its supportive document. • Technical drawing & purchase specification. • Certificate/self-certification for minimum local content as per PPP-MII order. • Replica of price bid schedule without prices with part-I offer. 	

2.	Special Instruction of Technical requirement	“The equipment shall be guaranteed for a minimum period of 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier”.	
3.	Compliance of GTC on GeM	General Terms and Conditions on GeM 4.0 (Version 1.28) Dtd -22/12/2025 or it's latest revision of GeM portal shall be applicable against this enquiry. Kindly confirm to compliance the same for this tender.	
4.	Pre-Qualification Requirements	The Pre-Qualification Requirements have been compiled. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.	
5.	Compliance of Rule 144 (xi) of GFR 2017	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
6.	Bid validity/ Validity of offer	<p>Please note that validity of the offer shall be 180 days from the date opening of Techno-Commercial bid (Part-I bid) on GeM portal.</p> <p>Offer of bidder's having validity less than 180 days shall liable to reject. Please confirm.</p> <p>The required validity is considering that offer is complete & clear w.r.t. PQR and all techno-commercial conditions. Vendors need to extend their offer validity for the time taken by them in responding BHEL's comments/clarification sought during techno-commercial scrutiny of the offer. In case regret by any bidder for such validity extension, their offer shall liable to be reject. Please confirm.</p>	
7.	Loading and unloading	<p>Vendor's scope will not cover Loading & Unloading at Final destination of delivery. Unloading at final destination (i.e. BHEL site) is in BHEL 'scope.</p> <p>Loading and unloading at other intermediate places due to any permitted transhipment will be the responsibility of the vendor. Kindly note</p>	
8.	Prices/Basis of Quotation	<p>The offered prices of the items shall remain firm and fixed till the execution of the contract, kindly confirm.</p> <p>Kindly confirm that your quote prices are inclusive of P&F, Freight & GST for Total quantity on GeM portal.</p> <p>Transit Insurance would be arranged by BHEL. Please quote your prices accordingly.</p> <p>The prices are to be quoted on Ex-Works with freight Pre-paid up to project destination basis & inclusive of all taxes & duties, GST (i.e. Inclusive all).</p> <p>Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination.</p> <p>If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery basis.</p> <p>In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account.</p> <p>Any demurrage / godown rent payable to the transporter /or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.</p>	
9.	Special Instructions :	<ol style="list-style-type: none"> ORIGINAL (INVOICE, GR/LR, PKG. LIST) COPY OF E-WAY BILL ARE REQUIRED FOR BILLING ENSURE MDCC / INSPECTION WASTER LETTER BY JSW BEFORE DISPATCH MATERIAL TO BE DESPATCHED ONLY AFTER MDCC. MATERIAL IS TO BE DESPATCHED ON DOOR DELIVERY BASIS TO JSW SITE COMMISSIONING SPARES & MANDATORY SPARES NEEDS TO BE PACKED IN SEPARATE BOXES MANDATORY SPARES TO BE WRITTEN IN BOLD LETTERS ON ALL SIDES OF PACKING BOXES. ITEM TAG SLIP WITH EACH ITEM FOR ITS IDENTIFICATION UPON OPENING OF BOX. BHEL BBU NOS. TO BE MENTIONED IN PACKING LIST BY VENDOR. Please inform 8 Digit HSN code for Oil Purification along with spares. 08 DIGIT GST HSN CODE to be provided & mentioned in your invoice & packing list. Vendor to ensure submission billing documents in the same month of material 	

		despatch. If vendor fail to provide the despatch documents in the same month GST Penalty shall be applicable and bear by vendor as per GST rule.									
10.	Evaluation criteria	Evaluation would be done on the basis of total landed cost for the complete scope/requirement covered in the enquiry Considering total material value and commissioning charges (if applicable), Packing charges, Forwarding Charges, taxes & duties, Freight & Insurance).									
11.	Evaluation Currency	The evaluation currency for this tender shall be INR.									
12.	Payment terms:	<p>For Material portion: The payment shall be done after receipt of Material at BHEL respective project site, within no. of days as defined in the below table from the date of receipt of Material at site i.e. MRC date).</p> <table border="1"> <thead> <tr> <th>Type of Bidder</th><th>Payment Terms (Number of Days)</th></tr> </thead> <tbody> <tr> <td>Micro & Small Enterprises (MSEs)</td><td>45 days</td></tr> <tr> <td>Medium Enterprises</td><td>60 days</td></tr> <tr> <td>Non MSME</td><td>90 days</td></tr> </tbody> </table> <p>The Payment terms are subject to receipt of non-discrepant document from supplier.</p>	Type of Bidder	Payment Terms (Number of Days)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
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13.	GeM charges	GeM charges if any shall be either side only i.e. buyer's GeM charges shall be in buyer's account and seller's GeM charges shall be on seller's account. Please confirm.									
14.	Contract execution	Bidder's are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									
15.	Reverse Auction (E-bidding)	BHEL shall be resorting to Reverse Auction (RA) on GEM portal as per GEM functionalities for this tender. RA shall be conducted among the techno-commercially qualified bidders.									
16.	Quantity Variation	<p>BHEL reserves the right to cancel tender or reject any or all the quotations without assigning any reasons thereof.</p> <p>BHEL also reserves the right to Increase or decrease the tendered quantities or quantity of individual material code may be dropped as a whole also.</p> <p>Vendors should be prepared to accept order for reduced Quantity without any extra charges. Vendor should also be prepared for giving discount in case of Increase in Quantity.</p> <p>Vendor has to take manufacturing clearance from BHEL before starting manufacturing of material. In case ordered quantity is reduced at the time of manufacturing clearance, then payment shall be made accordingly as per decreased quantity. Kindly confirm.</p>									
17.	Delivery Period	<p>Please note that BHEL's Delivery requirements are mentioned in point no 1 of above. Early delivery w.r.t. above lot delivery will be accepted only after written confirmation from BHEL. BHEL reserve right to reject early delivery request of bidders / suppliers.</p> <p>Delivery period indicated in GeM bid is only indicative and final delivery of tender shall be taken as mentioned above.</p> <p>Accordingly bidders to confirm the above deliveries or quote their best possible delivery in no of months / weeks from the date of placement of Purchase order, including all activities like document approval, inspection by TPI time etc.</p>									
18.	Technical Document/ Drawing approval conditions	<p>Drawings/Data sheets/documents/QAP etc. as called for in the specifications shall be submitted by Vendor for BHEL/ Customer approval within 30 days of purchase order. BHEL shall approve these drawings/data sheets/ documents / QAP etc. within 30 days of receipt. Any comments on the documents shall be given by BHEL within 7 days of submission and vendor shall submit revised document / reply to comments, within 7 days of BHEL comments. However, total time for Document submission and approval shall not exceed 30 days for respective party.</p> <p>Delivery is from the date of PO, accordingly, delay in submission / revision of the documents by the vendor will automatically account for to vendor. In case of delay on account of BHEL in comments / approval of the documents, the delivery shall be re-</p>									

		<p>scheduled by the no of days taken by BHEL in excess to 30 days. For delay analysis cumulative no of days (including time taken in comments), shall be considered for delivery extension.</p>	
19.	Liquidated Damages (LD) for late delivery	<p>Liquidated Damages shall be lot wise as per clause no. 15 (iii) of General terms and conditions on GEM 4.0 (Version 1.28) as under: kindly confirm.</p> <p>“If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever”.</p> <p>The date of LR would be treated as the date of delivery for penalty purposes.</p>	
20.	MDCC clause	<p>Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) from end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. After review & acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC.</p> <p>MDCC shall be issued within 7 days of receipt of complete quality documents / TCs,. In case of delay in issuance of MDCC, only delivery shall be extended by no of days taken by BHEL in excess to 7 days and all other terms and conditions of PO shall remains same & binding.</p> <p>In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard.</p> <p>Kindly confirm.</p>	
21.	BREACH OF CONTRACT, REMEDIES AND TERMINATION:	<p>The following shall amount to breach of contract:</p> <p>I. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time.</p> <p>II. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period.</p> <p>III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.</p> <p>IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.</p> <p>V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.</p> <p>VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.</p> <p>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</p> <p>VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract.</p> <p>In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.</p> <p>IX. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.</p> <p>X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.</p> <p>Note-Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of</p>	

	<p>contract within a period of 14 days.</p> <p>In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.</p> <p>Remedies in case of Breach of Contract.</p> <p>i) Wherein the period as stipulated in the notice issued under above clause has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.</p> <p>ii) Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.</p> <p>iii) wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:</p> <p>iv) In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.</p> <p>v) If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:</p> <p>a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.</p> <p>b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.</p> <p>vi) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.</p> <p>vii) It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii) In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:</p> <p>(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners ; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p>	
22. Suspension of Business Dealings with Suppliers / Contractors:	<p>The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.</p> <p>If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or</p>	

		<p>acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: http://www.bhel.com/vender_registration/vender.php.</p>	
23.	Settlement of Dispute, CONCILIATION & ARBITRATION :	<p>Settlement of Dispute</p> <p>If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Officer / IEM for amicable resolution by the parties. Designated Officer / IEM who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not. If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018 as per 'CONCILIATION' Clause.</p> <p>CONCILIATION:</p> <p>Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - "Procedure for conduct of conciliation proceedings" (as available in www.bhel.com).</p> <p>ARBITRATION:</p> <p>Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract (hereinafter referred to as the 'Dispute'), then, either Party may, refer the disputes to Arbitral Institution and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p> <p>A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice') before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the Arbitral Institutions (shall be identified by the contract issuing agency) and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The</p>	

	<p>institution once selected at the time of invocation of dispute shall remain unchanged.</p> <p>The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be at the court(s) of Haridwar.</p> <p>Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Haridwar , shall have exclusive jurisdiction.</p> <p>Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of clause mentioned above. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.</p>													
24. Action against Bidders / vendor / supplier / contractor in case of default:	<p>In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.</p> <p>Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier/ contractor or a bidder and shall be as per "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" available at BHEL's website "https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors"</p>													
25. MICRO AND SMALL ENTERPRISES (MSE):	<p>Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer.</p> <table border="1" data-bbox="385 1579 1367 1748"> <tr> <td>Type under MSE</td> <td>SC/ST owned</td> <td>Women owned</td> <td>Others (excluding SC/ ST & Women Owned)</td> </tr> <tr> <td>Micro</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Small</td> <td></td> <td></td> <td></td> </tr> </table> <p>Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</p> <p>a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will</p>	Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)	Micro				Small				
Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)											
Micro														
Small														

		lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.	
26.	JURISDICTION :	This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause(s) mentioned above of this contract, the Civil Court having original Civil Jurisdiction at Haridwar shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.	
27.	Force Majeure	<p>"Force Majeure" shall mean circumstance which is: a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And Prevents the performance of the contract, Such circumstances include but shall not be limited to: i) War, hostilities , invasion, act of foreign enemies. ii) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii) Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv) Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v) Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. vi) Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii) Epidemic, pandemic etc.</p> <p>The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, goslow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.</p> <p>The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p> <p>Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <p>i) Constitute a default or breach of the Contract. ii) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure.</p> <p>BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure</p>	
28.	Cartel Formation	The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.	
29.	Order of Precedence:	<p>In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:</p> <ol style="list-style-type: none"> Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. Buyer Added Bid Specific ATC GeM Bid Technical Conditions of Contract (TCC) GeM GTC 	

30.	<p>Conflict of interest:</p> <p>The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:</p> <p>a) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;</p> <p>b) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;</p> <p>c) Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.</p> <p>d) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.</p> <p>The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or nonsubmission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.</p> <p>In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.</p>	
31.	<p>Guarantee</p> <p>Kindly confirm that Guarantee shall be provided for a period of ““The equipment shall be guaranteed for a minimum period of 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier”.</p> <p>In case of any failure or trouble reported from site, the supplier should depute their representative immediately to attend the problem and replace the defective component/part if required, without any additional cost to BHEL.</p> <p>Supplier shall be responsible for free replacement of defective equipment / material at our site</p> <p>Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.</p>	
32.	<p>Order Acceptance:</p> <p>Ink signed order acceptance shall be furnished within 15 days of order placement. In case, order acceptance do not received within 15 days of order placement, PO deemed to be accepted by you.</p>	
33.	<p>Beneficiary of PO</p> <p>Kindly confirm on whom the PO will be placed in the event of ordering.</p>	
34.	<p>Dispatch documents</p> <p>Following dispatch documents to be provided immediately after directly dispatch to BHEL Project site for billing purpose:</p> <ul style="list-style-type: none"> • Guarantee/Warrantee Certificates • E- Invoice and commercial invoice • GeM invoice • Original consignee copies of GR/LR/RR (Material shall be dispatched on door delivery basis without consignee copy) • Packing list • Original GST compliance certificate • E-way bill • MRC/POD/Received LR/RR/GR copy (as per proof of delivery of material at BHEL 	

		Project site)	
35.	IP Address	The bids received from same IP address shall be outrightly rejected and shall not be considered for further evaluation.	
36.	Additional Conditions for Assessment	BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.	
37.	Bidder Contact details	Please provide Contact details of your representative for techno-commercial clarifications: Mobile no. & Email id (minimum 2 person)	
38.	Quality Requirement	<p>VENDORS HAS TO SUBMIT ENDORSED QP NO. QA/BE/QP/301 REV. 02 ALONG WITH OFFER.</p> <p>VENDORS TO CONFIRM FOR INSPECTION BY BHEL/BHEL TPIA M/S. QUEST AS PER ATTACHED BHEL SQP "QA/BE/QP/301 REV. 02.</p> <p>The Charges for Pre-Inspection would be borne by BHEL. However at least 15 days' notice is to be provided for arranging Pre-Inspection.</p>	

SPECIAL NOTE FOR BIDDERS:

- a. In the event of our customer order covering this tender being cancelled /placed on hold /otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution.
- b. BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL even after negotiation.
- c. Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for reasons not attributable to BHEL will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected.
- d. BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit.
- e. The offers of the bidders who are under suspension and also the offers of the bidders, who engage the services of the banned firms /principal/agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.
- f. Recovery / deduction as applicable as per Direct and Indirect taxes as notified by Govt. Of India from time to time will be made and information/certificate for such deduction/recoveries shall be provided by BHEL to the vendor.
- g. If the delivery of supply as detailed above gets delayed beyond the delivery period, the Supplier/Vendor shall request for a delivery extension and BHEL at its discretion may extend the Contract. However, if any 'Delivery extension' is granted to the Supplier/Vendor for completion of supply, due to backlog attributable to the Supplier/Vendor, then it shall be without prejudice to the rights of BHEL to impose LD for the delays attributable to the Supplier/Vendor.
- h. In case BHEL increase the quantity during currency of the contract in line with quantity variation clause of GeM bid, delivery extension on pro-rata basis shall be given for supply of these additional quantity.

Following documents are an integral part of this Tender Enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be submitted/uploaded along with offer on GeM portal against this bid.

1. Please submit replica of Price schedule (without prices) showing "quoted" in place of price along with techno-commercial bid (Part-I).
2. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Buyers Specific Additional Terms & Conditions (ATC)" and its clause wise supporting documents where required.
3. Please submit signed & stamped copy (each page) for qualifying PQR with proper filled information and related supporting documents as mentioned in PQR.
4. Please submit certificate of Minimum local content as specified in the Make In India Certificate of the tender

DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017- REVISION
DATED 19TH JULY, 2024 AND SUBSEQUENT ORDER(S)

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017- Revision, dated 19th July, 2024 and subsequent order(s).

Ref: 1) Tender Enquiry No:

2) All other pertinent issues till date

We hereby certify that the items offered by (specify the name of the organization here) has a local content of _____ % and this meets the local content requirement for '**Class-I local supplier**' / '**Class II local supplier**' ** as defined in Public Procurement (Preference to Make in India), Order 2017 Revision dated 19.07.2024 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

1. _____ 2. _____

3. _____ 4. _____

...

Thanking you,
Yours faithfully,

(Signature, Date & Seal of Authorized Signatory of the Bidder)

** - Strike out whichever is not applicable.

Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

**General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry
(GISTC)**

For Indian Bidders (Version Jun-2025, Rev: 08)

Annexure-3

Declaration for treatment of cases regarding conflict of interest

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- a) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- b) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- c) Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- d) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

(Signature of the authorized signatory of the bidder)

Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored. Page 36 of 36

Pre-Qualification Requirements (PQR) for Grounding Brush monitor (GBM) System
Material code no. W90418110018 & W90418110026

Purpose of System: GBM system is used in Turbo Generator for continuous monitoring of shaft voltage, insulation of bearing w.r.t ground and continuity resistance for ascertaining proper brush contact with generator shaft. The rating of Generator can be 250MW to 800MW.

- 1) Bidder shall be manufacturer or authorized supplier of Grounding brush monitor. Letter of authorization or suitable documents shall be submitted for the same.
- 2) The Vendor should have supplied above system for at least two H₂ cooled Turbo-Generators and system must be working for one years to the satisfaction of end customer.

In support of above, Vendor to provide customer satisfaction letter from minimum one customer or "Installation and commissioning" report (endorsed by end customer) from at least two installations should be provided by Vendor. The report shall not be older than last 7 years from date of enquiry.

OR

Successful execution of at least one order for BHEL Hardwar for Grounding brush monitor.

*under last 7 years
from 008. 201*

- 3) Grounding brush monitor should meet following requirements:

- a) GBM system comprises A flush mounted Electronic unit for placement in control room AND field mounted Detector Unit. Cable length between Generator and Electronic unit shall be appox 100mtr
- b) Following Inputs are envisaged: -
 - a) Voltage input from voltage monitoring brushes.
 - b) Insulation resistance measuring input from bearing.
- c) Outputs envisaged
 - a) Shaft voltage AC rms/ DC (0-50V)
 - b) Insulation impedance VAC rms in M ohms
 - c) Continuity resistance VDC in Mohms

There shall be provision for indications and limit value setting for alarms.

Vendor to confirm compliance to 4 a), b) and c).

Notes: -

- 1) Vendor to furnish their complete reference / experience list for our review.
- 2) BHEL reserves the right to verify information submitted by vendor. In case the information is found false/ incorrect, the offer shall be rejected.

Prepared by

Pallu Singh
Pallu Singh
18/02/21
Mgr / CIE

Checked by

Satish Kumar
Satish Kumar
DGM / CIE
18/02/21

Approved by

Rajnish Gupta
Rajnish Gupta
AGM / CIE
18/02/21

संस्कारित दस्तावेज़ का नाम SIGN & DATE		उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)	TG60461
पृष्ठ 07 का 01 Page 01 of 07			

सुपर्सेड इनवेन्टरी INVENTORY NO.	सुपर्सेड INVENTORY NO.	TECHNICAL SPECIFICATIONS OF GROUNDING BRUSH MONITORING SYSTEM <u>Based on own experience.</u>																																							
सामग्री संख्या ITEM NO.	सामग्री संख्या ITEM NO.	1.0 APPLICATION :																																							
संस्कारित दस्तावेज़ का नाम SIGN & DATE	संस्कारित दस्तावेज़ का नाम SIGN & DATE	The Grounding Brush Monitoring (GBM) system is used for continuous monitoring of shaft voltage, insulation of bearing w.r.t ground and continuity resistance for ascertaining proper brush contact with the generator shaft. Schematic diagram of a typical machine is as per fig-1. The offered system shall be preferably be microprocessor based.																																							
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	इन दस्तावेजों में दी गई युक्ति भारत देश के लिये नियंत्रित की जाएगी है इसका प्रयोग एवं अन्य क्षेत्र में नियंत्रित की जाना चाहिए हो न दिया जाय।	2.0 PRINCIPLE OF OPERATION :																																							
		During operation of TG sets shaft voltages are induced due to various reasons. If a closed path can be established through any of the bearings, there will be a flow of current or the sparking which may cause damage to the bearing surface/ liner. To avoid this situation, the generator pedestal is insulated. However, this insulation is liable to get damaged due to vibrations or external contamination.																																							
		Static charges are developed in low pressure stage of the steam turbine due to impinging of wet steam on turbine blade at high speeds. The DC voltage generated due to these static charges could be of the order of 50 volts or more and it shall try to discharge through the thin oil film, damaging the bearing. Hence it becomes essential to ground the shaft through brushes. Since the brush contact also deteriorates over a period of time, it becomes necessary to continuously monitor the good contact of brushes as well as healthiness of bearing insulation. Two number current brushes installed in X-Y planes are connected in parallel to ensure connectivity of earthing brushes.																																							
		Figure no. 1 indicates position of brushes and measurement derived from the same, alongwith schematic diagram of voltage and current monitoring circuits. A low impedance shunt resistor of 0.1 Ohms value is connected in the ground path. The current flowing through the circuit is calculated by measuring the voltage drop across this shunt. If the RMS value of the current exceeds the preset limits, it energizes alarm circuit.																																							
		Shaft voltage is continuously monitored with the help of independent brush as it is important to keep a watch on earthing brushes proper contacts with the shaft. To achieve this, the shaft voltages (both positive and negative peaks) are compared with the set values. The alarm values are adjustable and can be set as per standard guidelines or history of the machine.																																							
सुपर्सेड इनवेन्टरी INVENTORY NO.	सुपर्सेड इनवेन्टरी INVENTORY NO.	<table border="1"> <tr> <td>नाम NAME</td> <td>दिनांक DATE</td> <td>नाम NAME</td> <td>दिनांक DATE</td> </tr> <tr> <td>TSX</td> <td>Lalit Kumar</td> <td>TRANSLATED BY</td> <td></td> </tr> <tr> <td>QAX</td> <td>S Chandra</td> <td>WORKED BY</td> <td>PALLU SINGH</td> </tr> <tr> <td>सहमत विभाग AGREED DEPTT</td> <td>नाम NAME</td> <td>आवकर्ता CHECKED BY</td> <td>SATISH KUMAR</td> </tr> <tr> <td></td> <td>दिनांक DATE & SIGNATURE</td> <td>पर्यवेक्षणकर्ता SUPERVISED BY</td> <td>RAJNISH GUPTA</td> </tr> </table> <p>(SUPERSEDES)</p> <table border="1"> <tr> <td>REV.NO. 04</td> <td></td> <td></td> <td>निर्माण PREPARED : CIE</td> <td>प्राप्ति ISSUED : TSX</td> <td>दिनांक DATE : 28/03/07</td> </tr> <tr> <td>Dt. 05/06/17</td> <td></td> <td></td> <td></td> <td></td> <td>Gr. NO. 8.10</td> </tr> <tr> <td>CHANGE ADVICE NO.</td> <td>TGE (CIE)-17-21</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	नाम NAME	दिनांक DATE	नाम NAME	दिनांक DATE	TSX	Lalit Kumar	TRANSLATED BY		QAX	S Chandra	WORKED BY	PALLU SINGH	सहमत विभाग AGREED DEPTT	नाम NAME	आवकर्ता CHECKED BY	SATISH KUMAR		दिनांक DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	RAJNISH GUPTA	REV.NO. 04			निर्माण PREPARED : CIE	प्राप्ति ISSUED : TSX	दिनांक DATE : 28/03/07	Dt. 05/06/17					Gr. NO. 8.10	CHANGE ADVICE NO.	TGE (CIE)-17-21					
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हस्ताक्षर एवं तिनांक SIGN & DATE <i>20/06/17</i>	संस्थानी संख्या INVENTORY NO. 2-5981	तिनांक एवं हस्ताक्षर SIGN & DATE	उत्पाद मानक (हीप - हार्डवार) PRODUCT STANDARD (HEEP - HARDWAR)	TG60461 पृष्ठ 07 का 02 Page 02 of 07		
			(A) Code W90418110018 - The scope includes supply of: <ul style="list-style-type: none"> A field mounted Detector Unit (Protection class IP54 or better) which shall be located about 10 meters away from the generator. A flush mounted Electronic unit for mounting in control room (about 150 meters away from the generator). Instrument Cable, Individual & Overall shielded, PVC, FRLS, Armoured Size 6CX1.5 mm². Qty 150 mtr. (B) Code W90418110026 - Commissioning supervision of GBM System <ul style="list-style-type: none"> The scope includes supervision of commissioning of GBM system at site. (Installation and cabling shall be done by BHEL power sector) 	3.0 SCOPE OF SUPPLY:		
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	संस्थानी संख्या का अधिकारित करता है	संस्थानी संख्या का अधिकारित करता है	4.0 TECHNICAL REQUIREMENTS :	4.1 POWER SUPPLY : 240V AC $\pm 10\%$, 50Hz, Single phase. The power switching ON/ OFF button is to be made available on front side of the electronic unit (mounted in control room) with LED to display power ON condition.		
स्वतंत्राधिकार एवं गोपनीय इस प्रतेक में दी गई सूचना भारत केवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं अपराध का संकेत नहीं तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए	इस प्रतेक में दी गई सूचना भारत केवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं अपराध का संकेत नहीं तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए	4.2 INPUT : Following inputs are to be terminated through the socket or TBs. <ul style="list-style-type: none"> a) Voltage input: 0-100 V rms, AC/DC from voltage monitoring brushes. b) Insulation resistance measuring input from bearing. c) Ground input: From the system ground. The required filters will be installed in the circuits to minimize effect of the electromagnetic surges/ electrical noise.	4.3 OUTPUTS : Banana receptacles/ TB for voltage, bearing Insulation and continuity resistance outputs to be made available for external use for monitoring on CRT/ DCS. <ul style="list-style-type: none"> a) Display: 3 ½ digit digital display on the front of electronic unit for 100 V RMS (max.) corresponding to the position of rotary switch to set limit values and to see actual values as detailed below. It shall display shaft voltage, bearing insulation & continuity resistance between 2 brushes. b) Set limit values : <ul style="list-style-type: none"> (i) Voltage warning (+ peak) DC (ii) Voltage warning (- peak) DC (iii) Voltage alarm AC rms/ DC (iv) Insulation impedance warning VDC (v) Continuity resistance VDC (vi) Dummy 	Rev.no. 04	निर्माणकर्ता WORKED BY Satish Kumar <i>Salash 05/06/17</i>	जांचकर्ता CHECKED BY Rajnish Gupta <i>Rajni</i>

<div style="text-align: center;">  उत्पाद मानक (हीप - हार्डवार) PRODUCT STANDARD (HEEP - HARDWAR) </div>	TG60461 पृष्ठ 07 का 03 Page 03 of 07
<div style="text-align: center;"> समान संख्या को संख्या को संख्या को संख्या को </div>	SUPERSEDES INVENTORY NO.
<div style="text-align: center;"> COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company </div>	इस प्रत्येक में दी गई सूचना भारत हेली इलेक्ट्रिकल की सम्पत्ति है इसका प्रत्येक एवं अन्तर्गत रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।
<div style="text-align: center;"> हार्डवार एवं डिजिटल SIGN & DATE  </div>	हार्डवार एवं डिजिटल SIGN & DATE Satish Kumar 05/06/17
<div style="text-align: center;"> सामग्री संखी संख्या INVENTORY NO. P-5981 </div>	सामग्री संखी संख्या INVENTORY NO. Rev.no. 04
<div style="text-align: center;"> निर्माणकर्ता WORKED BY Satish Kumar जांचकर्ता CHECKED BY Rajnish Gupta </div>	निर्माणकर्ता WORKED BY Satish Kumar जांचकर्ता CHECKED BY Rajnish Gupta

c) Actual values :

- (i) Shaft voltage AC rms/ DC
- (ii) Insulation impedance VAC rms
- (iii) Continuity resistance VDC

4.4 WARNING / ALARMS :

4.4.1 The set shall be values shall be adjustable within the following ranges, through potentiometers (provided inside the instrument) :-

a) Voltage limits range:

Alarm 0- 100 V rms

b) Insulation Resistance

Alarm (variable)- Alarm adjustable in MΩ

c) Limits of continuity resistance:

Warning >300 Ω

4.4.2 Following alarms (LEDs) shall be provided on the front panel for indication purpose.

- i) Voltage exceeding alarm value
- ii) Indication of continuity break down in the path (resistance exceed preset value)
- iii) Indication when there is drop in Bearing insulation impedance.

4.4.3 ALARM contacts:-

Potential free contacts for alarm on voltage/ Insulation/ continuity resistance-current exceeding preset values. There shall be feature to reset/ acknowledge the LED indication from front

5.0 INTERCONNECTIONS :

Connections between the main instrument and detector unit (near brushes) shall be done through 1.5 mm², multi core, multicolour, multistrands, copper cables with pair/ individual core shielding. The cables will be of armoured type with Individual & overall sheathing by PVC having FRLS properties.

6.0 DESIGN :

The system shall be designed in accordance with the block diagram as shown in fig.1

7.0 EQUIPMENT LAYOUT:

7.1 Detector unit containing shunt resistor shall be installed near grounding brushes. It shall be suitable for wall mounting, near the generator. It shall conform to IP52 protection class.

		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARDWAR)	TG60461 पृष्ठ 07 का 04 Page 04 of 07	
समाचार संख्या INVENTORY NO.	लिनार्क एवं हस्ताक्षर SIGN & DATE	7.2 Proper connectivity between brushes/ signal point, detector unit & Monitoring unit to be ensured. <i>Colour of each connecting wire to be marked in O&M manual.</i>		
समाचार संख्या INVENTORY NO.			7.3 The cage clamp type terminal blocks shall be provided at convenient location in the unit. Proper terminations for all connections to be provided. Additional terminals for power supplies shall be supplied as required. Layout of sub units/components shall generally be done to achieve miniaturization is achieved. The approximate dimensions with layout arrangement of the main electronic unit and detector unit will be furnished along with the offer. The electronic unit will be flush mountable . The maximum depth of the unit may extend up to 300mm. <i>Schematic diagram, Flow diagram, Monitor Laout, TB layout, terminal details shall be part of O&M manual.</i>	
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company			7.4 Layout of front panel of main unit shall be as detailed below (Alternate better arrangement with the help of membrane type switches shall also be acceptable) :	
स्थायिकरण एवं गोपनीय इस प्रत्येक में दी गई सूचना भारत देशी इलेक्ट्रिकल कॉम्पनी की समर्पित है इसका प्रत्यक्ष एवं		a) <u>ON/ OFF toggle switch</u> : This connects the instrument to 240V AC , 50Hz AC mains when put in on position. b) <u>AC/DC toggle switch</u> : At selected position (AC/DC), the Digital Panel Meter (DPM) to display the respective values corresponding to rotary switch position. c) <u>LEDs</u> i) Yellow LED --- Indicates power ON ii) Red LED --- Indicates Shaft voltage exceed preset value. iii) Red LED --- Indicates break in continuity in the voltage brushes iv) Red LED ----- Indicates Bearing insulation become low than pre set value. d) <u>Monitor switch</u> :- This shall be a three position switch with ; Central position :- Marked as shaft voltage mode. (To measure Shaft voltage) Left position: - Marked as voltage brush continuity mode. (To measure resistance between two voltage brushes) Right position:-Marked as Bearing insulation mode. (to measure insulation between bearing and system earth) e) <u>DIGITAL INDICATOR</u> :- This is a 3 ½ digit display for indicating voltage values corresponding to rotary switch and toggle switch positions, the set values (DC voltage) and actual values (AC or DC) will be displayed. When actual voltage is beyond 100 volts the power meter shall show error indication or all 9s. f) <u>ROTARY SWITCH</u> :- This 6 position rotary switch is meant for indication of set values and actual values on panel meters. g) <u>OUTPUT SOCKETS</u> :- Sockets to monitor voltage, continuity & values on CRT/ multi meter etc.		
समाचार संख्या INVENTORY	हस्ताक्षर एवं लिनार्क SIGN & DATE	Rev.no. 04	निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY	Satish Kumar Rajnish Gupta
P-5981				

हिन्दू एम्स इंडिया SIGN & DATE	उत्पाद मानक (हीप - हार्डवार) PRODUCT STANDARD (HEEP - HARDWAR)	TG60461 पृष्ठ 07 का 05 Page 05 of 07
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सामग्री कुपोषण को अधिकारित करता है SUPERSEDES INVENTORY NO.	7.5 OPERATING CONDITIONS:- The instrument design shall be suitable for trouble free operation in thermal power station. The system shall be suitable for continuous operation at ambient temperatures ranging from 0-50 °C (the field mounted detector unit to be suitable for 0-55 °C) and relative humidity up to 95% with annual average value of 75%. The equipment to be suitable for storage with ambient temp range from 5 to 55 °C and relative humidity up to 98%.
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	8.0 TESTS : 8.1 TYPE TESTS : Type tests report will be furnished (not older than 5 years) for the following tests along with the offer. Alternatively, the bidder will perform these tests on at least one instrument in accordance with IEC 60068/ IS9000 (relevant parts) either at supplier's works or at an approved test house, at supplier's cost. These tests shall be as listed below : i) Dry heat test. ii) Damp test. iii) Surge with stand test as per ANSI 37.90 a iv) Free fall test (bump test)
स्वत्वाधिकार एवं गोपनीय इस प्रत्यक्ष में दी गई सूचना भारत सेवा इंस्टीट्यूट की सम्पत्ति है इसका प्रयोग एवं अन्तर्काल रूप से किसीभी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए । SIGN & DATE 25/06/17	8.2 ROUTINE TESTS : Routine tests shall be conducted at supplier's works free of cost. Following minimum (but not limited to) tests shall be conducted; a) <u>IR TEST</u> : Insulation resistance shall be at least 20 Mega Ohms between measuring terminals and ground when measured by a 500 V megger. b) <u>HV TEST</u> : HV test shall be conducted at 2 KV (rms) for one second without failure (excluding electronics). c) <u>Repeat IR TEST</u> to be done after HV Test d) <u>SIMULATION TEST</u> : Each instrument shall be tested to demonstrate output signals, LED indications and digital indications for given set values and actual values. For this purpose, actual values for each input condition shall be simulated. e) <u>BURN-IN TEST</u> :- At elevated temp of 55 degre Cel for 48 hours in energised condition at mutually agreed test cycle. The test will follow the simulation test again to demonstrate satisfactory performance after this test.

सामग्री कुपोषण INVENTORY NO. P-5981	हार्डवार ले हिन्दू SIGN & DATE 25/06/17	9.0 ACCEPTANCE NORMS : Meeting requirements of clause 8.0		
Rev.no. 04		<table border="1"> <tr> <td>निर्माणकर्ता WORKED BY Satish Kumar Signature</td> <td>जांचकर्ता CHECKED BY Rajnish Gupta Signature</td> </tr> </table>	निर्माणकर्ता WORKED BY Satish Kumar Signature	जांचकर्ता CHECKED BY Rajnish Gupta Signature
निर्माणकर्ता WORKED BY Satish Kumar Signature	जांचकर्ता CHECKED BY Rajnish Gupta Signature			

 विनायक हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARDWAR)		TG60461 पृष्ठ 07 का 06 Page 06 of 07	
सम्पादित कराना है सम्पादित कराना है	सम्पादित कराना है सम्पादित कराना है	SUPERSEDES INVENTORY NO.			
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company					
स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेली इलेक्ट्रिकल की सम्पत्ति है इसका प्रयोग एवं अप्रयोग का से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए					
हस्ताक्षर तथा तिनांक SIGN & DATE 29/06/17					
सम्पादित कराना है INVENTORY NO. P-5981	Rev.no. 04	निर्माणकर्ता WORKED BY Satish Kumar	जांचकर्ता CHECKED BY Rajnish Gupta	<i>Satish</i> 05/06/17	<i>Rajnish</i>

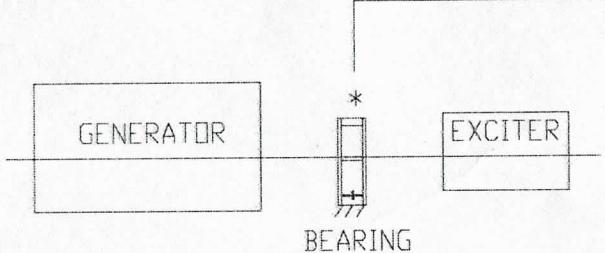
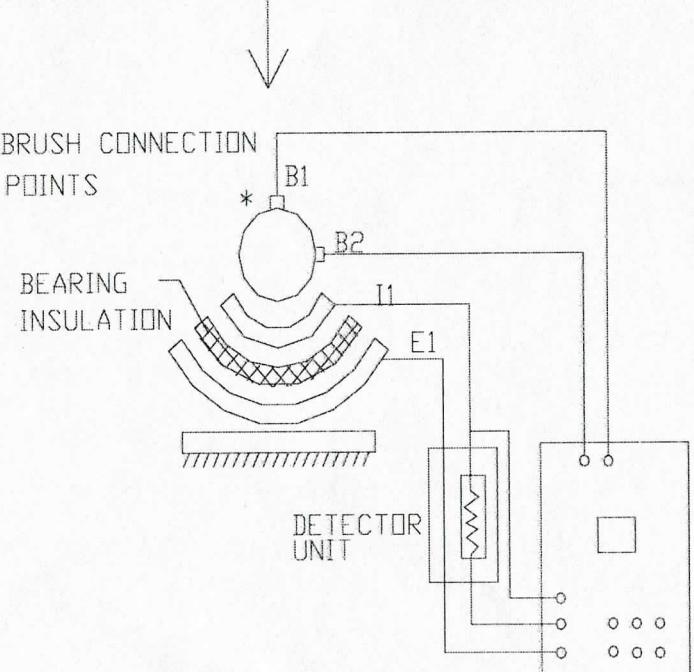
सामग्री सूची संख्या INVENTORY NO.	दस्तावेज एवं दिनांक SIGN & DATE	स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेलिकिटिकल्स की सम्पत्ति है इसका प्रत्यक्षा एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए	COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	सामग्री सूची संख्या को अधिकारित करता है SUPERSEDES INVENTORY NO.	दिनांक एवं दस्तावेज SIGN & DATE				
P.5981	29/6/17								
Rev.no. 04		MEASURMENT BY GBM SYSTEM:- a) SHAFT VOLTAGE THRU B1 & B2 b) INSULATION BETWEEN I1 & E1 c) CONTINUITY RES BETWEEN BRUSHES B1 & B2	B1- BRUSH NO 1 [ON SHAFT] B2- BRUSH NO. 2 [ON SHAFT] I1- BRUSH ABOVE INSULATION E1- EARTH						
<table border="1"> <tr> <td>निर्माणकर्ता WORKED BY</td> <td>Satish Kumar</td> </tr> <tr> <td>जांचकर्ता CHECKED BY</td> <td>Rajnish Gupta</td> </tr> </table> <p><i>Satish 07/06/17</i></p>	निर्माणकर्ता WORKED BY	Satish Kumar	जांचकर्ता CHECKED BY	Rajnish Gupta		 <p>SCHEMATIC GENERATOR & EXCITATION [FOR REFERENCE]</p>	 <p>BRUSH CONNECTION POINTS BEARING INSULATION DETECTOR UNIT GBM MONITOR [IN CONTROL ROOM]</p>	<p>उत्पाद मानक (हीप - हार्डवार) PRODUCT STANDARD (HEEP - HARDWARE)</p> <p>TG60461 पृष्ठ 07 का 07 Page 07 of 07</p>	
निर्माणकर्ता WORKED BY	Satish Kumar								
जांचकर्ता CHECKED BY	Rajnish Gupta								

FIG: 1 SCHEMATIC OF TG SET AND SIGNAL TAPPING POINT FOR GBM
(APPLICABLE FOR ALL TYPE OF GENERATORS)

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN									TO BE FILLED BY BHEL							
 BHEL	VENDOR'S NAME	ITEM	GROUNDING BRUSH MONITORING SYSTEM				QP NO.	QA/BE/QP/301											
			Drg. No. & Rev.		As per PO						REV.				02	Date: 21.06.2022			
			Spec.		TG60461														
			Spec. Rev.		As per PO			Page 1 of 1											
			SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY		REMARKS			
M	B	N																	
1	2	3		4	5	6	7	8	9	D	10	11							

1.0 RAW MATERIAL INSPECTION														
1.1	PCBs, resistance, transistors, diodes, ICs, condenser, switches, relays, indicators, LEDs, hooter alarm, connectors, terminals & fabricated cabinet	Visual, Rating & Make	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	TC/COC	✓	P	V	-		
2.0 IN PROCESS INSPECTION														
2.1	Proper mounting & Layout/wiring	--	Major	Measure	100%	Vendor's standard	Vendor's standard	--	-	P	-	-		
3.0 FINAL INSPECTION														
3.1	Type Test Reports	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	T.C.	✓	P	V	-	Note 3, ≤5 yrs.	
3.2	Routine Test													
3.2.1	Visual & Dimensional	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	W	-		
3.2.2	Mounting & layout of instruments, internal terminal connections & wiring	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	W	-		
3.2.3	Insulation resistance before and after HV test	--	Major	Electrical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	W	-		
3.2.4	High Voltage Test	--	Major	Electrical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	W	-		
3.2.5	Simulation Test	--	Major	Electrical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	W	-		
3.2.6	Burn-in-Test	--	Major	Electrical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	V	-		
3.2.7	Paint shade & paint thickness (DFT)	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	I.R.	✓	P	W	-		
3.3	Compliance of technical requirements	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	COC	✓	P	V	-		
3.4	Identification & marking	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	--	-	P	V	-		
3.5	Packing	--	Major	Physical	100%	Ord. Drg./TG60461	Ord. Drg./TG60461	--	-	P	V	-		

Note: 1. Witness by inspection agency to be random 10% of each material code (minimum 1 piece per material code) from each lot. However, vendor to carry out 100% tests internally and tests report shall be reviewed by inspection engineer during inspection at Vendor's works. 2. Manufacturer to maintain calibrated instrument having better accuracy than the item under the test. Inspection engineer shall check the same. 3. Type test clearance (if any, as per P.O. specification/drawing) from BHEL Engineering to be verified by inspection engineer during inspection at vendor's works. 4. Vendor to provide QP clause wise TC/IR and also index sheet for co-relation of TC/IR with QP clauses.

MANUFACTURER/ SUBCONTRACTOR	LEGEND: DRG: BHEL APPROVED DRAWING, ORD.: ORDERING, SPEC: SPECIFICATION, MTC: MATERIAL TEST CERTIFICATE, T.C.: TEST CERTIFICATE, I.R.: INSPECTION REPORTS, M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOMINATED INSPECTION AGENCY, N: CUSTOMER, 'P': PERFORM, 'W': WITNESS, 'V': VERIFICATION, "✓" RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	APPROVED BY
--------------------------------	--	------------------	-------------

Digitally signed
by Sachin Jain
Date:

2022.11.30
16:33:36 +05'30'





BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

**General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry
(GISTC)**

For Indian Bidders (Version Jun-2025, Rev: 08)

Annexure-3

Declaration for treatment of cases regarding conflict of interest

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- a) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- b) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- c) Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- d) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

(Signature of the authorized signatory of the bidder)

Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored. Page 36 of 36

DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017- REVISION
DATED 19TH JULY, 2024 AND SUBSEQUENT ORDER(S)

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017- Revision, dated 19th July, 2024 and subsequent order(s).

Ref: 1) Tender Enquiry No:

2) All other pertinent issues till date

We hereby certify that the items offered by (specify the name of the organization here) has a local content of _____ % and this meets the local content requirement for '**Class-I local supplier**' / '**Class II local supplier**' ** as defined in Public Procurement (Preference to Make in India), Order 2017 Revision dated 19.07.2024 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

1. _____ 2. _____

3. _____ 4. _____

...

Thanking you,
Yours faithfully,

(Signature, Date & Seal of Authorized Signatory of the Bidder)

** - Strike out whichever is not applicable.

Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.