

NOTICE INVITING TENDER (NIT)**Selection of Agencies for Measuring Baseline GHGs Emission of the Steel Plants in India**

National Institute of Secondary Steel Technology (NISST), invites Tender for “*Selection of an Agency for Measuring Baseline GHGs Emission of the Steel Plants in India*”: The details of the tender are as under:

1.	Date of issue of tender	: 11.12.2025
2	Schedule for Pre-Bid Meeting	: 23.12.2025 at 11.30 a.m. at National Institute of Secondary Steel Technology, Post Box 92, G T Road, Sirhind Side, Mandi Gobindgarh – 147301, Punjab
3.	Last date of submission of Tender	: 31.12.2025 till 3 p.m. at National Institute of Secondary Steel Technology, Post Box 92, G T Road, Sirhind Side, Mandi Gobindgarh – 147301, Punjab
4.	Schedule of opening of EMD, Technical Bid & Technical Bid evaluation	: 31.12.2025, 4 p.m. at National Institute of Secondary Steel Technology, Post Box 92, G T Road, Sirhind Side, Mandi Gobindgarh – 147301, Punjab After successful evaluation of the Technical Bid, the schedule of opening of the Financial Bid will be conveyed to the technically qualified vendors.
5.	Earnest Money Deposit (EMD)	: Rs. 1,00,000/- (Rupees one lakh only) in the form of Demand Draft (DD) drawn on Nationalised Bank only in favour of “National Institute of Secondary Steel Technology” payable at Mandi Gobindgarh. Please refer to relevant section of the tender for details on submission process of EMD.

Bidders are requested to follow the guidelines in the Tender Notice and submit proposal accordingly.

(Bimal Kr. Bansal)
Sr. Dy. Director (P&A)/(F&A)

Tender for Selection of an Agency for Measuring Baseline GHGs Emission of the Steel Plants in India

1. Terms of Reference -

This study will measure the GHG emissions at the intermediate / finished product level of steel plants in India other than those notified as Obligated Entities under CCTS, as notified on 28th June 2023 by BEE.

- a) The methodology for emissions measurement as outlined in the Bureau of Energy Efficiency (BEE) document titled "Detailed Procedure for Compliance Mechanism under CCTS," published in July 2024 (as amended up to the date), under the framework of CCTS will be referred to and followed for the study.
- b) The proforma sheet for emission calculation of CO₂/TFS(Product) is annexed as **Annexure-I**.
- c) The scope of emissions to be measured shall include Scope 1, Scope 2, and limited Scope 3, as prescribed in the proforma up to finished steel production. Scope 3 emissions shall include agglomeration (including sintering, pellet making, coke making), beneficiation, and embodied emissions in purchased raw materials and intermediary products, but shall not include upstream mining, downstream emissions and transportation emissions, both within and outside the gates of a steel plant.
- d) The study has to be conducted zone-wise. The list of Zones is as below:

S.No	Zone	States/UT	Tentative No. of Units*
1	NORTH -1	J&K, HP,Punjab, Chandigarh,	368
2	NORTH - 2	Rajasthan, Uttarakhand, Haryana, Delhi & UP	265
3	SOUTH	Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Puducherry	311
4	WEST	Gujarat, Maharashtra, Goa & Daman Diu.	402
5	EAST	Bihar, Arunachal Pradesh, Tripura, Assam, West Bengal, Odissa and Meghalaya	296
6	CENTRAL	Telangana, Madhya Pradesh, Jharkahnd, Chhattisgarh	299
TOTAL:			1941

*The number of the units are not final and 5% variation may be there. Zone wise exact number of units list will be provided during pre-bid meeting.

- e) Final report of every industrial unit in a standard format duly indexed, covering profile of the unit and its details of energy consumption, GHG emissions (Direct and Indirect emission including process emissions), emission intensity at the finished product level, plant production, analytical & statistical details of monthly data and all other relevant information would be submitted by the selected agency to NISST.
- f) This study will be carried out for the last completed Financial Year (2024-25).
- g) After baseline measurement, all the data will be handed over to NISST.
- h) Emission intensity may be collected for Billets/ingot and all rolling mill products separately. In case emission intensity of individual product/size is not available, the emission intensity may be calculated based on the combined data of all the rolled products taking the weighted average.

- i) Fuel analysis report- wherever NABL accredited reports are not available, inputs may be taken from the GCV mentioned on the invoices or any other internal document available with the unit.
- j) Since the study is data based, no instrument is required
- k) The sheet developed for calculation for CO₂/TFS has advanced features such as data validation, conditional formatting, and interlinked worksheets functionalities which are not fully supported in free or basic editions of MS Office, they are only supported on licensed versions of Office 365.

2. Scope of Work

2.1 The objective of this study is to measure the baseline greenhouse gas emissions (in tonnes of CO₂e) and determine the Emission Intensity (tonnes of CO₂e per tonne of product) of the steel plants of Indian steel sector.

2.2 Agencies are required to visit the individual units to collect GHG emission related data. Data collection must cover the following types of plant compositions:

- **Standalone Units:**
 - Direct Reduced Iron (DRI) making units.
 - Steel making units (utilizing Induction Furnace/Electric Arc Furnace - IF/EAF).
 - Rolling mills.
- **Composite Units:**
 - DRI-IF/EAF-Rolling Mills.
 - DRI-IF/EAF.
 - IF/EAF-Rolling Mills.
- **Ferro-Alloy** making units.

Data related to direct and indirect emission is required to be collected on annual basis for FY 2024-25 to calculate the tCO₂/t_{fp} (tonnes of CO₂ per tonne of finished product) in the worksheet shared by NISST.

2.3 General input details required from each unit include:

A. Raw Materials and Fuels (Scope 1 Emissions)

- **Inputs for DRI:** Type and quantity of input materials (e.g., Iron ore/pellets) used in DRI production.
- **Fuel Use:** Type and quantity of fuel (Solid/Liquid/Gas) used in product manufacturing, including their **Calorific Values** and **Carbon Content**.
- **Biomass:** Quantity of **Biomass** used in any process.
- **Byproducts:** Quantity of byproduct generation (e.g., dolochar, waste gases), including their **Calorific Value**, **Carbon Content**, and details of their subsequent use.

B. Energy Consumption (Scope 2 Emissions)

- **Electricity Import/Consumption:** Electricity imported/consumed in production, along with the **source of import**.
- **Electricity Generation/Export:** Quantity of electricity generated and exported (if applicable) along with details of fuel/source used for generation.
- **Renewable Energy:** Details of **Renewable Energy** usage, including the specific source.

C. Embodied Carbon (Relevant to Scope 3 Emissions)

- **Pellets:** CO₂ emission value of the pellets used in DRI making.
- **Steel Making Inputs:** CO₂ emission value per tonne of products like DRI, ferro alloys, fluxes, etc., used in steel making.
- **Rolling Mill Inputs:** CO₂ emission value per tonne of the Billet/Ingot/Bloom, etc., used in standalone rolling mills to produce finished products.

Reporting and Submission

- **Report Generation and Evaluation:** The submitted reports will be evaluated by **NISST officials** for any necessary changes or refinements before final submission. Based on the collected data and the calculated tCO₂/t{fp} values, agencies must prepare and submit a Draft Report in the format given as **Annexure-II** in the document. The draft report must contain all the information given in the format. After initial examination NISST will issue acceptance of the draft report after which final report must be submitted in not more than 7 days. And if additional information is required by NISST that must be provided within 15 days of the intimation to this effect.

3. Eligibility Criteria

- a) The agency should be an accredited agency. Necessary documents should be provided to substantiate the accreditation.
- b) The agency should be a Company/LLPs/Partnership firm registered/incorporated in India (Copy of the certificate to be submitted).
- c) The agency should have annual average turnover of Rs.1.50 Crores in the last three (3) years i.e., 2022-23, 2023-24 and 2024-25. A certificate from the Chartered Accountant along with Balance Sheets of these years should be submitted.
- d) The agency should have successfully completed at least 10 (Ten) energy audit projects during last three years. Work Order and Completion Certificates for each project cited should be provided. Work orders of value of more than Rs.1.00 lakh will be counted for this purpose. Alternatively, 20 order of value of Rs.50,000.00 each will be counted for this purpose.
- e) The agency should not be black-listed by any Central / State Government / PSU in India. An undertaking (self-declaration certificate) must be submitted in this regard.
- f) The agency should not be involved in any major litigation that may have an impact affecting or compromising the delivery of Services under this contract. An undertaking (self-declaration certificate) must be submitted in this regard.
- g) The agency having experience of PAT related work or similar work or GHG Inventory and Verification will be given preference.

4. Proposal Validity

The proposal shall be valid for 60 days (sixty days only) from the date of opening of the proposal.

5. Proposal Evaluation

- a) The evaluation process will be conducted by a Selection Committee headed by Director, NISST.
- b) From the time the proposals are opened to the time of awarding the contract, the agencies should not contact the Selection Committee on any matter related to its Technical and/or Financial Bids. Any effort by agencies to influence the Selection Committee in the examination, evaluation, ranking of Proposal, and recommendations for award of contract may result in the rejection of their proposal.

- c) All the queries must be presented in the pre bid meeting. Response will not be provided to mails received individually. Mails received will be responded upon in the pre-bid meeting only.
- d) The Selection Committee shall evaluate the Technical Bid on the basis of the required documents and submissions as mentioned in **Annexure-III**.
- e) Selection Committee while evaluating the Technical Bid shall not open / access the Financial Bid until the technical evaluation is concluded completely.
- f) Financial Bids of only the technically qualified agencies shall be opened and evaluated by the Selection Committee.

6. Award of Contract

- a) Bids have to be submitted Zone wise.
- b) A bidder may bid for one zone or more than one zone, but not more than 2 zones.
- c) The L-1 will be decided Zone wise i.e. the bids submitted for a particular zone will be evaluated separately. If a bidder is L-1 in more than 02 zones, he will give preference of 02 zones of his choice. In other zone, L-2 will be given work at the L-1 rate. NISST reserves the right to negotiate with L-2 in those zones, where L-1 cannot work because it exceeds the limit of 02 zones.
- d) If any bidder does not specify the zone for which he is submitting the bid, his bid will be disqualified.
- e) Financial bid format, that is zone wise, is given in the tender document.
- f) After finalization of selection process, NISST shall issue a Letter of Intent (LOI) to the L-1 agencies requesting for submission of Security Deposit, within seven days of receipt of the LOI. No response within 07 days may result in withdrawal of the offer.
- g) On receipt of the Security Deposit, NISST shall issue the Work Order to the agency. The project period will start with the issue of this letter to the agency through mail. Hard copy will follow.
- h) If the L-1 agency of any zone backs out, the job may be given to the L-2 agency of that zone at the negotiated rates. The similar process would be followed till L-3 if not accepted by L-2. In case of non-acceptance by L-1, L-2 & L-3, the tender process for that zone would be cancelled.

7. Confidentiality: Information relating to evaluation of Proposal and recommendations concerning award of work shall not be disclosed to the agencies who submitted the proposal or to other persons not officially concerned with the process, until the issue of the Work Order. The undue use by any agency of confidential information related to the process may result in the rejection of its proposal and may be subject to the provisions of the MoS, Govt. of India's antifraud and corruption policy.

8. Payment Schedule: After the award of the work order the agency will issue the deployment order that will clearly mention the name of the unit and the name of the staff deployed for this purpose with a copy to NISST. The agency will also provide the deployment schedule that will cover all the units with the time lines that will provide the time frame for the completion of the project. The total project period will be 100 days and on every 10th day after the work order the agency will submit draft report of 10% of the units the total units in the work order.

Payment to the selected agency by NISST will be made as per the following schedule:

S. No.	Stage	Percentage of Contract Value (%)
Stage 1	On submission of final report of 25% units	25%
Stage 2	On submission of final report of 50% of units	50%
Stage 3	On submission of final report of 75% of units	75%
Stage 4	On submission of final report of 100% of units	100%

9. Penalty for Delay:

- Since the project time line is of 100 days, 25% of the final reports have to be submitted in 25 days of the work order.
- Non-submission of Final report in different stages of submission will result in penalty. Penalty will be on stage-wise payments. Weekly deduction of 5% of the value of the work order for each 25% of units for a particular stage will be done. Time taken by NISST on the evaluation of the draft report will not be counted for this purpose. After the transgressing the 25% of the time beyond the completion of the entire project, the agency may be proceeded against for penalties that include blacklisting also.
- It may be noted that if an agency bids for more than one Zone, it has to provide separate teams for each Zone quoted for.
- Team Composition: Team of 02 members consisting of 01 Certified Energy Auditor and 01 Lead Verifier is required. However, if certified auditor is lead verifier also then second member can be an engineer.
- The Lead team member must have experience of at least 03 years.
- It may be noted that 01 team can cover a maximum 10% of total units in the work order.
- If any new unit is identified during the duration of the study, that unit will be allocated to the agency of the respective zone.
- If there is any new segment addition in any of the existing units, the agency to whom the unit is allocated will collect the data for the additional segment without any additional charges/cost.

10. Procedure for submission of Tender

Submission of the Tender should be in 3 (three) sealed envelopes addressed to Sr. Dy. Director (P&A & F&A), National Institute of Secondary Steel Technology, P. Box 92, G T Road, Sirhind Side, Mandi Gobindgarh -147301, Punjab

a) Envelope-I : Submission of EMD – This envelope will contain the Earnest Money Deposit (EMD) of Rs.1,00,000/- (Rupees One Lakh Only) in the form of Demand Draft (DD) drawn on any Nationalised Bank only, in favour of 'National Institute of Secondary Steel Technology' payable at Mandi Gobindgarh. Mention must be made of the Tender No., Name & Date on the envelope.

In case of non-submission of EMD, in a separate envelope, the Technical Bid of the concerned agency will not be opened at all and hence would stand cancelled. EMD will be returned to the unsuccessful participants within 30 days of opening of bids. Should an Invitation to Tender be withdrawn or cancelled by NISST, which it shall have the right to do at any point of time, the EMD will be returned to the participating agency. EMD of the successful agency will be adjusted against the Security Deposit. The EMD is non-interest bearing. The EMD shall be forfeited by NISST in the following events:

- a) If the participating agency after submitting his tender, refuses to honour its offer or modifies the terms and conditions thereof in a manner not acceptable to NISST.
 - b) If proposal is withdrawn during the validity period or any extension demanded by the agency thereof.
 - c) If the Proposal is varied or modified in a manner not acceptable to the NISST after opening of Proposal during the validity period or any extension thereof.
 - d) If the agency tries to influence the evaluation process.
 - e) If the agency withdraws his proposal during financial negotiations.
- b) Envelope-II: Technical Bid** – This envelope will include all the documents relating to the information on technical parameters as sought in **Annexure-III** and required for qualifying for opening of Financial Bid. This envelope will be sealed and addressed to Sr. Dy. Director (P&A)/(F&A), NISST. Mention must be made of the Tender No., Name & Date on the envelope. This envelop must be superscribed as “Technical Bid” in the middle upper part.
- c) Envelope-III: Financial Bid** – The rate offered by the agency will be included in the format given in **Annexure-IV**. Any other format other than the one included in the Tender document will be rejected. Rates quoted should be firm and all-inclusive (excluding GST) for carrying out activities including field visit as detailed in the scope of work. Rates shall be quoted in words and in figures. If the rates differ in words and figures, the lower of two will be accepted. Conditional rates will not be accepted. Mention must be made of the Tender No., Name & Date on the envelope. If the financial bid is not submitted separately the bid will be rejected. This envelop must be superscribed as “Financial Bid” in the middle upper part.

All the above three envelopes must be inserted in a bigger envelope together, sealed and addressed to Sr. Dy. Director (P&A)/(F&A), National Institute of Secondary Steel Technology, P. Box 92, G T Road, Sirhind Side, Mandi Gobindgarh -147301, Punjab. Mention must be made of the Tender No., Name & Date on the top of this envelope.

11. Security Deposit: The selected agency shall have to submit in response to the Letter of Intent (LOI) issued by NISST, a Security Deposit of 10% of the total work value of the project awarded, in the form of DD drawn in favour of “National Institute of Secondary Steel Technology” payable at Mandi Gobindgarh. Security Deposit is non-interest bearing. The EMD will be adjusted against the Security Deposit.

12. General Terms & Conditions

- a) At the time of submission of bid, the agency has to ensure that each page of the tender document is duly stamped and signed as an indication of acceptance of the tender document. In case the bid is signed by the authorized representative, a letter of authorization should be enclosed with the Technical Bid.
- b) The jurisdiction in case of disputes shall be the Courts of Fatehgarh Sahib, Punjab.
- c) The agency must be registered under relevant Laws/Acts of the country for undertaking this project.
- d) Even though agencies satisfy the necessary requirements, they would be subject to disqualification if they have furnished any false information in the documents required in **Annexure-III**. It may be noted that the authenticity of information provided should be guaranteed by the agency by signing on each page of the documents provided in relation to Annexure-II of this Tender.

- e) Right to accept or reject any or all proposals: Notwithstanding anything contained in this document, the NISST reserves the right to accept or reject any Proposal and to annul the selection process and reject all Proposals, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

13. Force Majeure: Force Majeure shall mean and be limited to the following: a) War/hostilities b) Riot or Civil commotion c) Earthquake, flood, tempest, lightening or other natural physical disaster. d) Restrictions imposed by the Government or other statutory bodies which prevents or delays the execution of the Contract by Consultant. e) In the event of any force majeure cause, the agency shall not be held liable for delays in performing their obligations under this order and the completion dates may be reviewed for extension, for a period not exceeding the period of delay attributable to the causes of Force Majeure. Neither NISST nor agency shall be liable to pay extra costs, provided it is mutually established that Force Majeure Conditions did actually exist.

14. Intellectual Property Rights

- a) NISST shall own and have a right in perpetuity to use all Intellectual Property Rights which have arisen out of or in connection with the award of the Work Order, including all processes, reports, drawings and other documents which have been developed by the consulting agency on advice of NISST during the performance of Services. The agency undertakes to disclose all Intellectual Property Rights arising out of or in connection with the performance of the Services to NISST and execute all such agreements / documents and file all relevant applications, effect transfers and obtain all permits and approvals that may be necessary in this regard to effectively transfer and conserve the Intellectual Property Rights of NISST.
- b) The agency shall ensure that while it uses any data / information or material in the course of performing the Study, it does not infringe upon the Intellectual Property Rights of any person and the agency shall keep NISST indemnified under all circumstances against all costs, expenses and liabilities howsoever, arising out of any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or violation of any permission/ license terms or infringement of any Intellectual Property Rights by the agency during the course of performance of the Services.

15. Amendment/ Waiver of Contract: No amendment, modification or waiver of any provision of this Agreement shall in any event be effective unless the same has been made in writing and signed by a duly authorized officer of each of the parties and approved in writing by other and any waiver or consent shall be effective only in the specific instance and for the specified purpose for which it is given.

16. Termination: NISST by giving notice in writing, immediately terminate this Agreement if the agency:

- a) Breaches any of the terms of this Agreement which, in case of a breach capable of being remedied, is not remedied by the vendor within ten days of receipt of a notice from NISST specifying the breach and requiring its remedy.
- b) Is found to be delaying the project blaming the responsibility on the third party or is incompetent, guilty of gross misconduct or any serious or persistent negligence or serious or persistent default in the provision of the Services, including the disclosure to any person not authorized by NISST of any confidential information.
- c) Commits any offence under the Prevention of Corruption Act 1988.

- d) Fails or refuses to provide the Services required pursuant to the provision of the work order after written warning.
- e) If in the opinion of the NISST, the vendor becomes or is in jeopardy of becoming insolvent or bankrupt, or has a receiving order made against it, or compounds with its creditors, or any of them, NISST shall be entitled to terminate this Agreement by notice to the vendor. The vendor shall immediately notify the NISST should it be in jeopardy of becoming insolvent, bankrupt or has a receiving order made against it or enters into a composition with its creditors or any third party.

17. Disputes: Any disputes which may arise as to the terms of this contract will be dealt with in accordance with the provision to the following:

- a) If any dispute arises between the parties in relation to this contract, then either party may request the other to participate in a meeting of their respective senior officials or any other authorized officer/representative, in order to discuss the dispute and to agree to a strategy to resolve it. The Parties shall then liaise in good faith to arrange and implement the meeting within ten (10) working days and shall exchange statements at least three (3) clear working days prior to the date of the meeting, setting out their respective views of the issues, which are in dispute.
- b) If notwithstanding any steps taken by the parties pursuant to the above, the dispute between them remains unresolved within one (1) month of the date on which the dispute arose, then the matter shall be resolved through reconciliation. All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the vendor to the NISST through "Notice of Dispute" provided that no such notice shall be served later than 30 days after the date of issue of Completion Certificate by NISST.

18. Fraud and Corrupt Practices:

- a) The agencies and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this document, NISST, shall reject a Proposal without being liable in any manner whatsoever to the agency, if it determines that the agency has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices") in the Selection Process. In such an event, NISST shall, without prejudice to its any other rights or remedies, forfeit and appropriate the EMD, or the security deposit.
- b) If an agency, is found by the NISST to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or in execution of the Agreement, such agency shall not be eligible to participate in any tender or RFP issued by NISST during a period of three years from the date such agency is found to have directly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.

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ANNEXURE I: PROFORMA SHEET FOR EMISSION CALCULATIONS

Draft Report

ANNEXURE II: FORMAT OF DRAFT REPORT

Draft Report

ANNEXURE III: TECHNICAL BID

PART A : Profile of Agency

1. Company Name
2. Year of establishment
3. Name and Contact No. of Managing Director/Chairman
4. Name and Contact No. of Project Leader
5. Office Locations: Headquarter, Regional/Zonal/Field Offices
6. Manpower Strength (as on 30.11.2025)
7. Details as sought in Para 3 ("Eligibility Criteria ") and Para 12a ("General Terms & Conditions") of the Tender

PART B : Other Documents

1. Accreditation certificate.
2. Experience certificate.
3. GST Details
4. Copy of PAN Card
5. Company Registration Certificate/Partnership Deed
6. Turnover Certificate from Chartered Accountant along with balance sheet copies for last 3 years
7. Copy of cancelled cheque

NOTE:

1. All documents and information content therein as submitted as part of this Tender will be treated with utmost confidence by NISST.
2. All documents submitted as part of this Tender document, must be duly signed and stamped in each page.
3. The information content so submitted will be liable for random checking by NISST for verification purpose.
4. The agency will bear sole responsibility of authenticity of all documents submitted.

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ANNEXURE IV: FINANCIAL BID

(Amount in Rs.)

Particulars	North-1 Zone	North-2 Zone	West Zone	Central Zone	South Zone	East Zone
Rate per unit (Amount excluding GST but inclusive of all costs towards conveyance, tours and other miscellaneous expenses)						
Rate in words						

Note:

- a) The rate quoted should be a lump-sum, inclusive of cost towards conveyance, tours and other miscellaneous expenses incurred for delivery of the Services in relation to the present Tender.
- b) GST as applicable will be paid extra subject to submission of tax invoice.
- c) Rates shall need to be quoted both in words as well as in figures. In case of any discrepancy between figures and words, whichever is lower, will be taken.
- d) Financial bid, submitted in form other than the prescribed one, will be rejected.
- e) Conditional offers will be rejected.
- f) Rates quoted shall be valid for 60 days (sixty days) only from the date of opening of the proposal.
- g) The cost indicated in the Financial Bid shall be deemed as final and reflecting the total cost of assignment.
- h) The comparative calculation sheet for assessing the L-1 for each zone will be as under:

Calculation Sheet

Name of bidder	Rate quoted per unit (in Rs.)					
	North-1 Zone	North-2 Zone	West Zone	Central Zone	South Zone	East Zone
Bidder 1						
Bidder 2						
Bidder 3						
Bidder 4						
Bidder 5						

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ANNEXURE V: DRAFT AGREEMENT

Agreement
