National Institute of Solar Energy

No. 04/10/01/2019-20/MEA/Mongolia Date: 16th September,2025

Corrigendum - I

Subject: Corrigendum for the tender "Design, Procurement, Supply, Installation, Commissioning and Maintenance of (i) 25 kWp gridtied Rooftop Solar PV Power Plant, (ii) 20 kWp grid-tied Solar Power Plant on Carport (Car Parking Lot), and (iii) 24 Nos. PV Street lights (12 Nos Standard and 12 Nos Smart) "

Reference to the tender notification No. 04/10/01/2019-20/MEA/Mongolia dated 28th August, 2025, the tender document is modified as under.

S.No	Item	Existing Description	Modifications
1	Bid closing Date/Time	18.09.2025, 17:00:00	29.09.2025, 17:00:00

The responses/corrigendum to pre-bid clarifications (held on 8th Sep 2025) are enclosed in Annexure-1. Other terms and conditions in the tender will remain unchanged.

-Sd-

Deputy Director (Technical),

Consultancy Division

Annexure 1

Vendor 1: Alien Energy Pvt. Ltd.		
S. No	**Query from the Vendor**	**Responses from NISE**
1.	**1.2Tender Abstract** **Earnest Money Rs. 8,00,000 (8Lac) to be waved off for MSME/SME organization**	Relaxation as per the prevailing GoI norms will be considered.
2.	**2.5.j (Actual Clause of the Tender)** **20% on Tendered cost on supply of system on receipt of the certification from the respective competent authority in Mongolia** **(Amendment sought by the Vendor)** 50% on tendered cost of supply items to be paid to vendor after inspection of items or receipt of certification from NISE authority before dispatch of Material.	No change in the bid qualification criteria regarding payment terms.
3.	**2.5.L** **Mongolia authorities have agreed to facilitate support for customs clearance at Mongolia port. etc** **What will be the billing address?** 1. We would like bill to the NISE instead of Mongolia 2. If billed to the consignee then it shall be the sole responsibility of consignee to get custom clearance and transport the material upto the site. However the necessary charges to be deducted from our bills.	As per para 2.5 (g) & (l) of the tender document.
4.	**3.2.1.1 SPV Module F)** **PV module should withstand heavy snowfalls /frequent hailstorms** Module manufactures ALMM do not give guarantee / warrantee of items	It is scope of the bidder to ensure the design / procurement terms as per the requirements of the clause 3.2.1.1.
	Terminal box to have provision of opening All terminal box of solar panels are sealed with sealing material with built in bypass diode sealed	Clause on 3.2.1.1 – J may be read as: "The terminal box on the PV module **may** have a provision for opening it for replacing the Cable if required"
5.	**3.2.1.13 Meters** **Solar Generation meter shall be of same class as the DISCOM Service connection meter** Who will provide this type of meter? Is it possible to procure from local DISCOM body? **Approval / NOC from the concerned DISCOM for the connectivity, technical feasibility etc—** To obtain feasibility and replacement of existing service meter with the Net Meter should not be in the scope of Vendor / supplier.	MEA through local agency (as identified by Mongolian embassy) may facilitate the successful bidder in obtaining such approvals and permissions. Annex to Order No. 159 of 2020 from the Ministry of Energy, Mongolia may also be referred for more details on connectivity.

6.	**3.4 Solar street lights** **12.8 volt 54 AH Battery capacity**. 12.8 volt 54 AH Battery capacity is not sufficient for 3 days' autonomy. Mongolia is landlocked country therefore battery cannot be loaded in air cargo.	Prospective bidder to plan as per the requirements of the tender. Relevant Clause No.s in 3.4 may be read as: "Minimum 12.8V, **60 AH** capacity. Lithium Ferro Phosphate Battery. Conforming IEC 62133-2: 2017 IEC 61427-1: 2013".
7.	**3.4 Solar street lights** PV Module minimum 120 Wp Under STC Point 3.4.1.1 the capacity of PV module is written as 75 Watt (page no 41 of 58)	In Point 3.4.1.1 there is no data available about 75 Watt PV Module in tender document.
8.	**3.4 Solar street lights at Sr no 13 page 41of 58 smart street light** **Integrated USB port Type B and C for mobile charging etc & remote monitoring system** The clarity of specification of Smart street lighting system is not clear. More over battery if any cannot be lifted by air. Can be transported by land only if possible.	Prospective bidder to plan/design as per the requirements of the tender.
9.	**3.2.1.2 c) Module mounting structures angle of inclination & orientation as per site condition** Manual angle of inclination in module mounting structures is possible .Orientation to be done manually.	Prospective bidder to plan/design as per the requirements of the tender.
10.	**3.2.1.11 Earthing protection** **Earthing resistance shall not be more than 5 ohms** If the area is Rocky then to achieve 5 ohms is difficult.	Prospective bidder to plan/design as per the requirements of the tender.
11.	Mongolia has extreme weather conditions in the upcoming months. Will there be any relaxation in the project timeline owing to extreme weather conditions.	Refer clause 2.5 (d) of the tender document.

• **Vendor 2: Esto Group**		
S.No	**Query from Vendor**	**Response from NISE**
1.	Two Mongolian companies plan to form a JV for this project. Is it possible for you to clarify whether the formation of a joint JV is permissible?	As bid requirements does not mention anything about JV, suitable options may be explored.
2.	We would like to participate in the tender as an Indian company or as a subcontractor as it will take some time to obtain an Indian digital signature. Is this acceptable? (All the applicants	Bidder may explore applicable options to ensure that, " all the applicants must have a *Class-III Digital Signature* Certificate (in the name of the person

	must have a Class-III Digital Signature Certificate)	who will sign the bid document) from any of the licensed certifying".
3.	Can the following equipment be from a country other than India? (3.2.1.4 GRID-TIED INVERTERS (Power Conditioning Unit):	Prospective bidder to plan the procurement as per the technical certifications / requirements of the tender.

• **Vendor 3: Sunpure Energy Pvt. Ltd.**		
S.No	**Query from the Vendor**	**Response from NISE**
1.	For Structure in India we are following the MNRE guideline so, what is the wind speed of the particular location is their any guidelines or we will follow the MNRE guidelines for that location	Prospective bidder to plan/design as per the requirements of the tender. Bidder to assess the local resource data for the design.
2.	In Page no. 32 cable size is mentioned that 70 mm^2 and 400 mm^2 that is not suitable for the capacity, so change it as per the capacity of the plant.	The cable size requirements in the spare list will be as per the cable size designed by the successful bidder during the drawing/design submission stage.
3.	How Mongolian government will support for the custom?	MEA through local agency (as identified by Mongolian embassy) may facilitate the successful bidder in obtaining such approvals and permissions.
4.	Details of the contact person of the Mongolian government who can help for this project	To be provided to the successful bidder during the award of the work.
5.	We need pictures/images of roofs where solar needs to be installed to check the type of roof. Same in case of a parking area, if it is a ground that is fine but if RCC or anything else please share images.	Photograph of the roof is annexed.
6.	We need to have an earthing location please share google earth images and coordinates for clarity.	Coordinates and links of google map: 47°55'01.8"N 106°55'15.4"E https://maps.app.goo.gl/4NYXqKP9Tw55u1qF8
7.	Please give an idea of the length of cable route from roof to feeding point in the ground if possible, same for earthing cables from roof to ground.	It is a 10 floor building, accordingly vendor may estimate.
8.	Please share the net meter guidelines document.	MEA through local agency (as identified by Mongolian embassy) may facilitate the successful bidder in obtaining such approvals and permissions.

		Annex to Order No. 159 of 2020 from the Ministry of Energy, Mongolia may also be referred for more details on connectivity.
9.	The 20kW system is a hybrid system, there is no any details mentioned regarding battery. it is requested to please give exact specifications, quantity and type of battery to be installed at site. As every company calculating batteries takes different assumptions so they may propose different quantities so it's better to propose capacity and quantity by NISE.	In Pg. 49 (Annexure A3-(i)), pg. 50 (Annexure A3-(ii)), pg. 51 (Annexure A4), pg. 52 (Annexure A5), pg. 53 (Annexure B1), pg. 54 (Annexure EMD), it may be read as "(ii) 20 kWp Solar Power Plant on Carport"
10.	The payment term mentioned is back to back, we request to please give a maximum timeline for payment after milestone completion.	Details of the time line on the payment is currently not available.
11.	It is also requested to exempt the EMD for MSME companies.	Relaxation as per the prevailing GoI norms will be considered.
12.	The total budget 1.76 Cr is very less, seeking the requirement and location. We would like to request to increase the value.	No change in the bid qualification criteria regarding budget cost The total budget cost is Rs. 1.73 Crores inclusive of all applicable taxes.
13.	It is also requested to please extend the bidding timeline.	The last date of bidding is extended to 29.09.2025, 17:00:00

Additional

Clause 2.1 (b) "The bidder must be engaged in the solar PV business for at least last three (03) years based in India"	May be read as: "The bidder must be engaged in the solar PV business for at least last three (03) years"

Annexure:

Roof of the Proposed Building – MEA, Ulaanbaatar, Mongolia.

Minister of Energy

Annex to Order No. 159 of 2020

FROM CUSTOMER RENEWABLE ENERGY GENERATION

TO DISTRIBUTION NETWORK

One. Common grounds

1.1. Distribute renewable energy sources to citizens and legal entities (hereinafter referred to as “consumers”) in this manner
Regulate the relations related to the connection to the grid and the supply of surplus electricity to the distribution network.

1.2. The consumer's renewable energy generator (hereinafter referred to as the "generator") is located in the electricity distribution network
The following requirements must be met when connecting. These include:

1.2.1. The installed capacity is within the capacity limit specified in 3.1 of this regulation
to be;

1.2.2. Specified in Article 2 of the Rules for Use of Electricity and Article 1.2.3 of this Regulation
Technical specifications for the installation of small-scale generators have been obtained from the distribution license holder (hereinafter referred to as “TTZE”)
on the basis of meeting the technical requirements;

1.2.3. Provide safe and parallel working conditions in the TTZ network and use electricity
to fully comply with the requirements of the rules, rules of installation of electrotechnical facilities, safety rules of installation of electrotechnical facilities and building standards, norms and rules, given technical conditions;

1.2.4. The consumer shall count the two power flows separately and calculate the energy payment;

1.2.5. Distribution of electricity due to scheduled maintenance and unplanned outages
In the event of a power outage at the point of connection to the network, an automatic circuit breaker shall be installed which shall be completely isolated
from the power distribution network, provided that the generator is able to operate independently with the charge accumulator;

1.2.6.Generator without charge accumulator device connected to electricity distribution network
to meet the technical requirements to stop the operation of the generator or not to supply back voltage as soon as there is no power supply from the network;

The generator shall have its own independent earthing facility that meets the relevant requirements
to be;

1.2.8. Accredited to operate in the field of renewable energy at the generator
Laboratory measurements and conformity assessment.

1.3. Prior to the start of this procedure, the installed generator shall meet the requirements specified in 1.2 of this regulation
In addition to the technical specifications of the small generator, it will be connected to the distribution network.

Two. Rights and obligations of the parties

2.1. The state central administrative body in charge of energy shall have the following rights and responsibilities. These include:

2.1.1. A detailed capacity plan of the generator that can be connected to the distribution network in the given year
to approve based on the research specified in 2.3.4 of this regulation.

2.2. The Energy Regulatory Commission shall have the following rights and responsibilities: These include:

2.2.1. To set tariffs for electricity supplied from the consumer's generator to the distribution network;
to develop and approve a methodology regulating relevant issues;

2.2.2. The maximum total capacity of small generators that can be connected in a given year
Determine for each TSE.

2.3. The TSE has the following rights and responsibilities. These include:

2.3.1. To follow the rules of using electricity when connecting the consumer generator to the distribution network;

2.3.2. To study the request to connect a small generator based on the amount specified in 2.2.2 of this regulation
to determine the potential capacity of the customer's generator and provide technical conditions;

2.3.3. In the order of the date of the customer's request that meets the requirements specified in 1.2 of this regulation
to register;

2.3.4. Within the limits of its own distribution network within the limits specified in 2.2.2 of this regulation to conduct a study of possible substations and submit it to the state central administrative body in charge of energy;

2.3.5. Technical safety of renewable energy equipment and back to the network to set up a technical professional commission before connecting to the network in order to determine whether the voltage supply conditions and technical requirements are met;

2.3.6. To release consumers from voltage for the purpose of maintaining the distribution network if necessary, notify the consumer 24 hours in advance;

2.3.7. Provide information on generators connected to the distribution network annually and submit to the National Dispatch Center and delivery to other relevant places;

2.3.8. A list of documents required to connect the consumer generator to the distribution network post on your organization's website;

2.3.9 study the request to connect the consumer generator to the distribution network, issue technical specifications, to receive payment from citizens and legal entities for connection services in accordance with technical specifications;

2.3.10. In the agreement on electricity supply concluded with the consumer within the scope of this regulation make changes or cancel changes;

2.3.11 without prior notice for the purpose of preventing potential accidents and incidents Disconnect the user generator from the network.

2.4. The user has the following rights and responsibilities. These include:

2.4.1. To install a generator within the installed capacity limit set by this regulation;

2.4.2. Solar power that meets the requirements of international standards IEC61730-1 and IEC61730-2 installation of power generators and inverters that meet the requirements of IEEE1547 / IEC61000-3-15 / IEC62116;

2.4.3. To supply excess energy to the distribution network;

2.4.4. To supply electricity to the distribution network during peak electricity load For this purpose, the generator may be installed with a battery, in which case a three-stage tariff meter shall be used;

2.4.5 Requirements of the national standard MNS 1778: 2007 in force in Mongolia to supply supplied electricity to the distribution network;

2.4.6. In case of power outage on the distribution network, no voltage shall be applied to the distribution network from the generator to take technical and organizational measures;

2.4.7. To be solely responsible for the expenses of the measures specified in 2.4.6 of this regulation;

2.4.8. In case of power outage on the distribution network, from the generator without the permission of TZE to be solely responsible for accidents, incidents and damages caused to any person as a result of supply of voltage;

2.4.9. Generators, inverters, meters and others that meet the technical requirements specified in this regulation fully cover the costs of purchasing, installing and connecting peripherals to the network;

2.4.10. Safety, maintenance, damage of equipment from the generator to the connection point, to be responsible for the costs of repairing the delay and to be responsible for the consequences related to its operation and safety;

2.4.11 Expired equipment that has a negative impact on the environment In such cases, notify the appropriate authorities and take action in accordance with the Law on Waste.

2.5. The customer shall obtain a license for installation, repair and maintenance of equipment specified in 2.4.9 of this regulation (HR-1.1 and above).

2.6. The National Dispatch Center provides integrated network modes, calculations, relay protection, and automated calculations The impact on the distribution network from small consumer sources will be taken into account.

Three. Generator capacity and technical requirements

3.1. The consumer is within the limits of his / her energy consumption within the following capacity limits generator can be installed. These include:

Customer classification	Capacity / kW /
Citizen	Up to 20
Legal entities	not more than 50 percent of the capacity specified in the specifications

3.2. The customer is independent of the distribution network for the sole purpose of using the generator can be run as.

3.3. All generators will be connected to the 0.4 kV distribution network.

3.4. Calculation of protection devices to be installed in the line from the source to the distribution network connection point Register with TTZE. If necessary, relay protection, automatic selection and setting calculations will be performed by TTZE.

3.5. The TSE shall meet the requirements of the standard specified in 2.4.5 of this regulation for the quality of energy supplied from the generator Independent analysis of the presence of the standard and, in case of non-compliance, measures to meet the requirements of the standard.

Four. Amendments to the electricity supply contract

4.1. TTZE is a consumer generator in the electricity supply contract concluded with citizens and legal entities make appropriate changes related to the supply of generated electricity to the distribution network.

4.2. The contract specified in 4.1 of this regulation shall include the following issues. These include:

4.2.1 generator testing;

4.2.2. The amount of electricity supplied by the consumer;

4.2.3. Electricity supplied by consumers in accordance with the methodology specified in 2.2.1 of this regulation conditions for deducting from consumed electricity;

4.2.4. Technical conditions;

4.2.5. Approved working drawings;

4.2.6 act of the technical commission;

4.2.7 operation and maintenance of the generator;

4.2.8. Requirements for meters and measuring instruments;

4.2.9 relay protection and automation devices;

4.2.10. Other relevant issues.

4.3. Renewable energy for citizens and legal entities after amendments to the electricity supply contract The right to supply and use excess energy from the power generator to the distribution network shall be ensured.

4.4. Except for the cancellation of the contract by one of the parties, the citizen has since signed and ratified 3 years, with a legal entity for 5 years.

Tav. Control and accountability

5.1. The state central administrative body in charge of energy and professional inspection shall monitor the implementation of this regulation organizations, state-owned professional organizations operating in the field of renewable energy, and the Central Electricity Regulatory Authority.

5.2. Renewable energy for assembly and installation from generator to inverter output The state-owned professional organization and the TTZE will monitor the operation.

5.3. Persons guilty of violating this regulation shall be held liable in accordance with relevant legislation. Gam Damage shall be compensated regardless of whether criminal or administrative liability has been imposed on the guilty person.

5.4. Concerning the supply and consumption of electricity, which the parties could not agree on Disputes shall be resolved by the Energy Regulatory Commission. If you do not agree with this decision, you can appeal to the court.

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