



འབྲུག་གླིང་མེ་ལས་འཛིན།
Bhutan Power Corporation Limited
(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company)
Registered Office, Thimphu
Construction & Procurement Department
Construction Division
Thimphu : Bhutan



PRE-BID MINUTES OF MEETING
For
OCB No: BPC/C&PD/CD/ADB/AREPP/Package1

A. Members Present

The pre-bid meeting was conducted virtually through by vedioconference on Google Meet as per the Bid Data Sheet, ITB 7.4 of the bidding document on May 25, 2023. The meeting was chaired by Mr. Drukchu Dorji, General Manager (GM), Construction Division, Construction & Procurement Department, Bhutan Power Corporation Limited (BPC) along with the contract administrator.

B. Welcome and Introduction

The meeting was formally opened by General Manager. All intending bidders were virtually invited and admitted to the meeting room as they joined. The Bidder's representative from the following Companies were present for the pre-bid meeting. It was informed that only one representative from the company will be recorded for the attendance.

Sl #	Name of the Representative	Name of the Company
1	Harsh garg	Eastland Switchgears private limited, kolkata
2	Zamri Adam Wong	Shorefield Sendirian Berhad
3	Kaushik Ahmed Reza	Tashi Infocomm Limited
4	Tandin Dendup	Dungkar Company Pvt Ltd
5	Inderjeet Singh	Smartroof Solar Solutions pvt ltd
6	Damber Bdr Gurung	Nawang Builders Pvt. Ltd
7	Bhaskar Kakoty	Free Power Technology Pvt Ltd.
8	Saiful Islam	Hexing Electrical Co. Ltd.
9	Kesav Sharma	Bhutan Traders
10	Sonam Nyeanda	DPZ for Smartroof Solar Solutions Pvt Ltd
11	Karma Jigme	JB Solar Solutions
12	Niraj Shrestha	JB Solar Solutions
13	Dorji Penjore	Chimmi R D Construction Pvt Ltd
14	Damith Rupasinghe	Ceylex Engineering (Pvt.) Ltd.
15	Mohinder Gupta	Ampscon Engineers Private Limited
16	Sunil Sharma	Aditya Clean Energy Systems Pvt. Ltd.
17	Pradeep Kumar	Arteche Spain



འབྲུག་གྲོག་མེ་ལས་འཛིན། Bhutan Power Corporation Limited

(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company)

Registered Office, Thimphu
Construction & Procurement Department
Construction Division
Thimphu : Bhutan



C. Clarifications and Responses

BPC inform the meeting that only one intending bidder have submitted the clarification a week prior to the pre-bid meeting as per the bidding document clause ITB 7.4 of the Bid Data Sheet.

BPC presented the overview of the document requirements as a reminder to the intending bidders and the floor was given to seek any clarifications.

The clarifications raised were discussed and clarified as follows:

SL#	Clarifications received from Bidders	BPC's Response to clarifications
1	The specifications call for the integration for both RF and cellular with ISKRA HES. 1. Which one we are considering for this integration? 2. If cellular and we want our existing meter to be integrated then whether HES can accommodate our DLMS profile implementation? 3. What is the required frequency of RF?	BPC confirmed that Communication Modules (NIC) requirements as follows: 1. RF and cellular communication module (LTE 4G with 3G and 2G fall back as per Telecom Standards of Kingdom of Bhutan). 2. Yes, the existing HES can accommodate the DLMS profile implementation. 3. The RF frequency is 433 Mhz.
2	Who will provide the SIM Card for the meters?	The meter shall have the provision for SIM Card. The SIM Card will be provided by BPC.
3	What is the mode of payment for the Schedule 1 (Plant and Mandatory Spare Parts Supplied from Aboard)	The Payment shall be through irrevocable confirmed documentary credit less the advance payment as per Section 9: Contract Forms of the bidding document.
4	If the ISO 45001 Certificate of Occupational HEALTH and Safety Management System can substitute ISO 18001 or not.	It was informed that valid ISO 18001 as indicated in the bidding document and also ISO 45001 shall be accepted.
5	Is there Road access to 305 households? Is this asphalt road or graveled? Can we transport goods to each household?	Some households cannot be reached by asphalt road or graveled. Some households can only reached by foot. The bidders can explore with this link for better understanding https://myfile.bpc.bt/share.cgi?ssid=f33056c58fa34f0f87929bc712e1101f which is also in the bidding document.
6	The Ground Mounting Structure (GMS) for SPV ground mounted have specified as "All metal parts shall be made of non-corroding materials (aluminum, stainless steel) or adequately protected against corrosion by galvanization (layer approx. 30mm). Please confirm the requirement of galvanization as it should be in micron and not in mm?	For Galvanization, IS 4759-1984 Specification for Hot dip zinc coating on structural steel and other allied products shall be applied.
7	Request to extend the bid submission deadline	Bid submission deadline cannot be extended as enough preparation time were given.
8	Is the online Bid submission allowed?	As per the ITB 23.1 (b) of the Bid Data Sheet, Electronic bidding submission procedures shall be: NOT APPLICABLE



འབྲུག་གི་ལྷན་ཁུངས་ལེ་སྒྲིག་ལུ་ **Bhutan Power Corporation Limited**

(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company)

Registered Office, Thimphu

Construction & Procurement Department

Construction Division

Thimphu : Bhutan



D. Supplementary information

Check lists as per Appendix-2 (Social Safeguard Screening Checklist and Environmental Safeguard Screening Checklist) which is required during the implementation phase has been missed out in the bidding document. Therefore, the Appendix-2 is attached for kind information and incorporation in the tender document.

E. Closing of Pre-Bid Meeting

There being no further questions, BPC formally thanked the bidder representatives for their participation and wished them all the best in their bid submission. The pre bid meeting ended at 3:00pm.

(Drukchu Dorji)

SOCIAL SAFEGUARDS SCREENING CHECKLIST

Date:		Position:	
Completed by (name):		Signature:	

1. Household name (as on land & building certificate):
2. Location:
3. Installation description
 - i) Total capacity: kW
 - ii) Solar panels: -

Number: _____
 Capacity per panel: kW _____
 - iii) Connection line length: m
- iv) Ownership of the land or facility: ☐ private ☐ government ☐ community
- v) Ownership of the land and rooftop structure: ☐ single owner ☐ multiple owners
- Vi) Total area available for solar PV system installation: _____ m²

To be completed for all solar PV installations

Social Impact Screening Questions	Yes	No	Remarks
<i>Only installations with 'NO' checked against all social items can proceed with processing</i>			
Will there be land acquisition for the installation?			
Will there be residential house demolition causing loss of shelter due to land acquisition or construction activities?			
Will there be any temporary occupation of land that affects the land, housing, assets or livelihoods/business of people except the beneficiaries?			
Will there be losses of crops, trees, graves and fixed assets of people except the beneficiaries during installation civil works?			
Are there socio-cultural groups present at the installation site who may be considered "tribes" (hill tribes, scheduled tribes, tribal peoples), "minorities" (ethnic or national minorities), or "indigenous communities"?			
Will the installation directly or indirectly target, displace or impact ethnic minority or indigenous households?			

Can the installation Proceed at this location: ☐ Yes ☐ No

Attachments to Form:

- ☐ Photo of installation location
- ☐ Building/land ownership certificate



Social Screening Criteria:

All solar PV system installations shall meet the following social criteria:

- (i) All project sites will be screened through safeguards checklists;
- (ii) All installations are limited to rooftops of the existing structures or premises of the beneficiaries only. No installations with new grid connections that require the right of way will be financed;
- (iii) The installation does not involve any land acquisition or housing demolition and cause any adverse impacts on ethnic minorities;
- (iv) The installation does not support activities involving commercial development of cultural resources of Indigenous Peoples.



B. ENVIRONMENT SAFEGUARDS SCREENING CHECKLIST

Date:		Position:	
Completed by (name):		Signature:	

1. Household name (as on land & building certificate):
2. Location:
3. Installation description
 - i) Total capacity: kW
 - ii) Solar panels: -
Number:
Capacity per panel: kW
 - iii) Connection line length: m
 - iv) Ownership of the land or facility: ☐ private ☐ government ☐ community
 - v) Ownership of the land and rooftop structure: ☐ single owner ☐ Multiple owners
 - vi) Total area available for solar PV system installation: m²

To be completed for solar PV installations

Screening Questions	Yes	No	Remarks
A. PROJECT SITING			
Is the site adjacent to or within any of the following environmentally sensitive areas? Only the installations with 'No' checked against all siting items can proceed with processing.			
▪ Physical cultural heritage site			
▪ Located in or near to legally protected area or buffer zone			
▪ Located in or near to special habitats for biodiversity (modified or natural habitats)			
▪ Wetland			
▪ Mangrove			
▪ Estuarine			
▪ Offshore (marine)			
B. POTENTIAL ENVIRONMENTAL IMPACTS			
Will the installation cause...			
<i>If there are any "yes" then an additional due diligence and the compliance will need to reflect in the EMP</i>			
▪ disturbance due to noise, vibration and dust from construction activities?			
▪ disturbance due to an increase in local traffic during construction?			
▪ environmental disturbances such as soil erosion, land contamination, water quality deterioration, air pollution, noise and vibrations during construction phase?			Not there in paper
▪ a threat to bird or bat life from colliding with the project facilities?			



Screening Questions	Yes	No	Remarks
▪ industrial liquid (dielectric fluids, cleaning agents, solvents, lubricating oils, compressor oils, and hydraulic fluids) and solid wastes generated during construction and operations likely to pollute land and water resources?			
▪ soil/water contamination due to use of hazardous materials or disposal of broken or damaged solar cells (photovoltaic technologies contain small amounts of cadmium, selenium and arsenic) during installation, operation and decommissioning?			
▪ noise disturbance during operation due to the proximity of settlements or other features?			
▪ visual impacts due to reflection from solar panels on rooftops?			
▪ Is there any asbestos presence observed?			
▪ large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			
▪ medium-high risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommissioning?			
▪ medium-high risks to community health and safety due to the transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction and operation?			
▪ community safety medium-high risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?			



Environmental Screening Criteria:

All sites shall meet the following criteria, in particular:

- (i) All sites will be screen through safeguards checklists;
- (ii) The installation has only minimal or no adverse environmental impacts;
- (iii) The facilities are not located in any designated environmental protection zone and cultural heritage site;
- (iv) The installation do not increase the amount of water consumption compared to prior status;
- (v) The installation do not directly or indirectly result in significant conversion or degradation of natural habitat;
- (vi) The facilities are not located within, abstract water from, or discharge to a critical habitat and a legally protected area;
- (vii) Each facility should be designed, constructed, and operated in accordance with all relevant domestic environmental and social regulations and must acquire necessary environment permits, if any;
- (viii) Based on the visual preliminary screening of asbestos presence in the selected households, in case asbestos is detected, it is suggested to avoid activates that could mobilize asbestos fibbers in the environment. If the rooftop is already damaged or at risk of release, an asbestos removal should be arranged or an alternative location where no asbestos is presents should be selected.
- (ix) The installations should be in compliance with relevant domestic occupational health and safety standard.
- (x) Persons involved in any field work should be trained on risks and prevention measures for COVID 19.

