

TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026



**PREMISES & ESTATE
DEPARTMENT LHO
GUWAHATI – 781006**

e-mail: agmpne.lhoguw@sbi.co.in

**INVITES TENDER
FOR
SUPPLY INSTALLATION TESTING COMMISSIONING & MAINTENANCE
OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS OF
DIFFERENT CAPACITY IN BANK'S OWN BUILDINGS AT VARIOUS
LOCATIONS IN NORTHEAST STATES ASSAM, MEGHALAYA, TRIPURA,
MIZORAM, MANIPUR, NAGALAND AND ARUNACHAL PRADESH.**

Assistant General Manager (P&E)
Premises & Estate Department, State Bank of
India, 3rd Floor, Block A,
SBI LHO BUILDING, DISPUR, GUWAHATI -
781006

Notice Inviting tender

Issued to:

M/s.....

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STATE BANK OF INDIA
PREMISES & ESTATE DEPARTMENT, LHO GUWAHATI

NOTICE INVITING TENDER

STATE BANK OF INDIA, LOCAL HEAD OFFICE, GUWAHATI (hereinafter referred to as SBI) invites Tenders in two Bids system (Technical Bid and Price Bid) from eligible and qualified bidders for carrying out **SUPPLY INSTALLATION TESTING COMMISSIONING & MAINTENANCE (05 YRS.) OF ON-GRID ROOF TOP SOLAR POWER PLANTS IN BANK'S OWN BUILDINGS AT VARIOUS LOCATIONS IN NORTH EAST STATES**. The interested vendors can download the tender form from the Bank's website <https://bank.sbi> from 27.09.2026 to 17.10.2026 up to 02:00 PM. The Application can also be downloaded from the Bank's web-site www.sbi.co.in under procurement news (LINK: <https://www.sbi.co.in/web/sbi-in-the-news/procurement-news>).

1.	Scope of Work	:	SUPPLY INSTALLATION TESTING COMMISSIONING & MAINTENANCE (05 YRS.) OF ON-GRID ROOF TOP SOLAR POWER PLANTS WITH NET METERING IN BANK'S OWN BUILDINGS AT VARIOUS LOCATIONS IN NORTHEAST STATES (ASSAM, MEGHALAYA, TRIPURA, MIZORAM, MANIPUR, NAGALAND AND ARUNACHAL PRADESH)
2.	User Department	:	Premises & Estate Department, State Bank of India, Local Head Office, Guwahati, 3 rd floor, A-block, Dispur, Guwahati – 781006 (Assam).
3.	Availability of tender documents	:	Tender documents can be downloaded from the Bank's website www.sbi.co.in under section 'Procurement news' up to 02:00pm 17.10.2026
4.	Pre bid queries/meeting	:	Pre bid queries if any may be sent latest by 12.10.2026 on email ID agmpne.lhoguw@sbi.co.in . Pre bid meeting is scheduled for 13.10.2026 at 3:00 PM
5.	Technical Bid Submission	:	The Application-cum-Technical Bid (Hard copy) with all supporting documents should be submitted in a sealed cover containing the name and complete address/contract number of the vendor on the cover and bear the title " TECHNICAL BID FOR SUPPLY INSTALLATION TESTING COMMISSIONING & MAINTENANCE (05 YRS) OF ON-GRID ROOF TOP SOLAR POWER PLANTS WITH NET METERING IN BANK'S OWN BUILDINGS AT VARIOUS LOCATIONS IN NORTH EAST STATES " addressed to the Assistant General Manager , Premises & Estate Department, State Bank of India, Local Head Office, Guwahati, 3 rd floor, A-block, Dispur, Guwahati – 781006(Assam) in the " TENDER BOX " kept at Ground Floor, "A" Block of Local Head Office Building of State Bank of India, Guwahati on or before 17.10.2026 up to 02:00 PM.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

6.	Earnest Money Deposit (EMD)	:	Rs. 1,00,000.00 (Rupees One Lakh only) to be deposited to the Bank's A/C No. 10242804581 (Name of the Account:- SBI, LHO, PREMISES & ESTATE Department Misc. Deposit account, maintained at SBI, Dispur Branch, IFSC code-SBIN0003030) and submit the deposit voucher copy as proof of deposit the amount along with technical bid in separate envelop duly marked as EMD.
7.	Price Bid	:	The Price Bid (Hard copy) should be submitted in a separate sealed cover containing the name and complete address/contract number of the vendor on the cover and bear the title "Price Bid" and to be submitted along with the Technical Bid.
8.	Date & Time for Opening of Technical Bid	:	On 17.10.2026 at 03.00 PM ONWARDS Authorized representatives of vendors may be present during opening of the Technical Bids. However, Technical Bids would be opened even in the absence of any or all the vendor's representatives. After opening, the Technical Bids will be evaluated based on the minimum eligibility criteria specified in this Tender including deposit of specified amounts for the Tender Processing Fee/ Earnest Money as mentioned above.
9	Date & Time for Opening of Price Bid	:	Tentatively on 26.10.2026 at 02.30 PM ONWARDS. Price bid of technically qualified vendors only will be opened.
10.	Validity of Tender	:	Tender shall remain valid for acceptance for a period of 6 (Six) months from the date of Tendering for price bid. If the Bidders withdraw their offer during the validity period or make modifications in his/her original offer which are not acceptance to SBI without prejudice to any other right or remedy, SBI shall be at liberty to forfeit the EMD.
11.	Contact details for any clarification	:	State Bank of India, Premises & Estate Department ,3rd Floor, SBI LHO Building, Guwahati, Dispur-781006, Contact No: 9959226068
12.	Deduction of Income Tax and GST	:	TDS on Income Tax/GST will be deducted at source as per Govt. Guidelines. The contractor should comply with the following. i. Contractor should have GST Registration Number

		ii. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provision iii. In case of Correction in the bills after scrutiny, contractor should submit fresh invoice for payment iv. Contractor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the contractor. iv. Contractor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the contractor.
13	COMPLETION PERIOD	Maximum 60 days. Vendors must initiate work in all sites simultaneously.
14	Terms & mode of payment	i) There would be no provision for advance payment. ii) Payment will be made after completion of a particular site. Payment shall be made by way of electronic fund transfer. The vendor should furnish details of the Bank, A/c no, IFSC code PAN, GST numbers etc. in the Invoice.
15	Liquidated Damage	Liquidated damages at the rate of 0.5% of the contract value per week or part thereof subject to a maximum of 5% of the contract value
16	Notes:	
a)	In case the date of submission of Tender Processing Fee, EMD, e-Tendering is declared as a holiday, the respective date will be considered for the next working day at the same time. The bidder, who is the authorized representative and participating on behalf of company/ Dealer/vendor, should have a valid digital signature certificate (DSC) for this tender.	
b)	The SBI reserves the right to cancel or postpone or modify the tender at any stage without assigning any reason thereof.	
c)	Vendors who do not fulfill the minimum eligibility criteria need not apply. Any incomplete application and / or not fulfilling the minimum eligibility criteria will be summarily rejected. Moreover, the conditional tenders are liable for rejection and will not be allowed to participate in e-tendering.	
d)	The EMD of the unsuccessful Bidders in Technical Bid shall be returned within two weeks from the date of Tender finalization after receiving the request to return the same from respective bidder	

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

e)	All pages of the Technical Bid documents should be serially numbered and shall be signed by the authorized person(s) of the applicant only. The person(s) signing the bid shall sign all pages of the bid and rubber stamp should be affixed on each page.
f)	Corrigendum: (If any) is to be followed as published in Bank's website www.sbi.co.in under section 'Procurement news'
	(For and on behalf of State Bank of India) Assistant General Manager Premises & Estate Department 3rd Floor, A Block, Local Head Office, Guwahati

MINIMUM ELIGIBILITY CRITERIA FOR QUALIFYING IN TECHNICAL BID: -

A. Only those applicants who possess the following eligibility criteria should apply, along with documentary proof.

- i) **The applicant shall be an established company/vendors** having experience in SITC and maintenance of grid connected roof top solar power plant of minimum 140 kWp capacity sites (completed or in operation) or work volume of 84 Lakhs (single work)/52.5 Lakhs (two work)/ 42 Lakh (three works) in Government buildings/PSU Banks/Reputed Companies etc. for similar Applications during last 7 years.
- ii) The Applicant's average Annual Financial Turnover during last 3(three) years ending 31st March 2026 should be at least INR 100.00 lakh from Solar Business only.
- iii) Bank's solvency certificate amounting to INR 100.00 lakh.
- iv) **Company/bidder shall have existing full-fledged Service Centre in Northeastern Region of India for providing after sales service in time.**
- v) The bidder must be in solar operation for minimum 7 (Seven) years.
- vi) The bidder shall have sufficient qualified staff/Engineers/Technicians for installation, testing, commissioning and maintenance of Solar Power system. Details shall be submitted.
- vii) The bidder should have positive net worth as on 31st March 2026.
- viii) The Bidder should be a cash profit making entity during the last three years and should have earned net profit as on 31.03.2026
- ix) Bidder should not be a defaulter /NPA at any point of time to any Bank/Financial Institution.
- x) The bidder should not be blacklisted by any Bank/Financial Institution.
- xi) **The bidder should have Electrical Licence to carry out Electrical works.**
- xii) The Bidder must have the following valid quality/assurance certifications. (A copy of Certificate to be submitted): –
 - ISO 9001:2015 - Quality Management System
 - OHSAS 45001:2018 - Occupational Health Safety Management System
 - ISO 14001:2015 – Environment Management System

B. The vendors should possess the following documents and must submit self-attested photocopies of the following supporting documents along with duly signed entire Technical Bid:

- a) Work order & completion/satisfactory certificate from the clients (as mentioned above in A. i) whose work (completed or in operation) has been undertaken during last 7(Seven) years. Capacity of installed roof top solar power systems & net metering feature is to be mentioned in the completion/satisfactory Certificate. **List of minimum 05 sites with installed capacity mentioned in A. i) should be enclosed with full address.**
- b) Certificate / License for appropriate authority, as applicable
- c) PAN Card in the name of the company /Firm.

- d) Goods & Service Tax (GST) registration.
- e) Documents for Applicant's average Annual Financial Turnover during last 3(three) years ending 31st March 2026 with minimum INR 100.00 lakh.
- f) Details of Staff/Engineer/Technicians engaged by the firm.
- g) Latest valid Bank's solvency certificate amounting to INR 100.00 lakh.
- h) Details of service Centre available in Northeast.
- i) Income Tax return for last 3(three) years ending 31st March 2026.
- j) Document as proof of year of Establishment of the firm with not less than 7 (Seven) years.
- k) CA/CS certificate to be submitted in support of vii), Viii), ix), X).
- l) Copies of ISO Certificates are to be submitted.
- m) The cut-off date for reckoning experience would be 31st March 2026.
- n) Electrical licence in the name of the bidder.

NOTE: Duly signed and sealed copy of the whole NIT document is to be submitted in technical bid. Non submission of the sealed and signed NIT will lead to disqualification of the vendor at technical stage. No further evaluation will be done.

<u>APPLICATION –CUM- TECHNICAL BID FORM :-</u> (Please strike-off which is not applicable.)		
1.	a) Name of the applicant/organization	
	b) Full Postal Address of the Firm c) Contact Details (i) Phone No. ii) Mobile No. iii) Fax No. (iv) E- mail address.	
2.	Year of establishment Please enclose documentary evidence	
3.	Constitution of Firm Enclose certified copies of documents as evidence.	Sole proprietorship/ Partnership /Private Ltd. / Ltd. Co. / Any other (Please specify)
4.	Name of the Proprietor/Partners/Directors of the organization/firm Enclose certified copies of document as evidence.	
5.	Name/s of authorized signatory with designation	
6.	Mode of Authorization Enclosed certified copies of document as evidence	Resolution / Partnership Deed / Registered Power of Attorney / Proprietor / Any Other (Please specify)

7.	Details of registration-whether partnership firm, company, etc. Name of registering authority, date and registration number (Note: partnership firms not registered with the appropriate authority need not apply), if any Enclose certified copies of document as evidence.	
8.	Whether registered with Govt. /Semi Govt./Banks/CPWD/Municipal Authorities or any other Public Organization and if so, since when? (Enclose certified copies of document as evidence). i. Name of Organization No. & Date of Registration ii. Name of Organization No. & Date of Registration iii. Name of Organization No. & Date of Registration	Yes/No
9.	No. of years of experience in the field and details of work in any other field.	
10.	Yearly turnover of the organization during last 3 (Three) years (year wise) and furnish balance sheet and Profit & Loss A/c. for the last 3 years.	
11.	Banker's Details (i) Banker's Name (ii) Full Postal Address (iii) Telephone No. (iv) Account No. (v) Type of Account	
12.	Bank's Solvency Limit (Please enclose latest valid Solvency certificate from the Banker)	
13.	PAN No. (Income tax) Enclose certified copies of document as evidence	
14.	Goods & Service Tax (GST) No. Please enclose documentary evidence	
15.	Whether last three years IT returns filed (Pl. enclose certified copies of the IT returns of the last three FY Years i.e. 2021-22, 2022-23, 2023-24,	
16.	Details of similar works in operation/completed	Please fill enclosed Annexure - A & enclosed copies of work completion /in operation certificates
17.	Details of Key Personnel Permanently employed.	

18.	Other infrastructural information to be Used /referred for this work.	
19.	Furnish the names of -3- responsible persons along with their designation, address, telephone no., etc., for whose organization, you have completed / in operation for similar jobs and who will be in a position to certify the performance of your organization.	1 2 3
20.	Whether any Civil Suit/litigation arisen in contracts executed during the last 10 years. If yes, please furnish the name of the employer, nature of work, contract value, work order and brief details of litigation. Give name of the Court, place, and status of pending litigation.	Attach the Affidavit as per Annexure-B
21.	Information relating to whether any litigation is pending before any Arbitrator for adjudication of any litigation or else any litigation was disposed off during the last ten years by an arbitrator. If so, the details of such litigation are required to be submitted.	
22.	Please mention whether your any relative(s) is (are) working in the State Bank of India with the name, relationship, address etc.	Please submit declaration certificate.
23.	Registration details for the EPF/ESI and the Labour License details under the Labour Contract Act.	
24.	Registration certificate issued by MNRE or approved vendor of MNRE	
25.	Electrical Licence to carry out electrical work	

I/We have read and understood the Pre-qualification Notice & this Application form along with Annexure and my/our firm fulfills the ELIGIBILITY CRITERIA FOR QUALIFYING IN TECHNICAL BID described in this TENDER Notice.

(SIGNATURE OF AUTHORIZED SIGNATORY)

I/We hereby confirm and certify that the information given above is correct and true and the enclosures annexed herewith are genuine to the best of my/our knowledge.

I/We are authorized to sign and submit these documents.

I /We understand that if any stage it is found / noticed by SBI that any information thus provided by us is untrue / incorrect partly or fully and in case of receipt of adverse / unsatisfactory report

from other clients / Bankers, SBI may not consider our application or may take any appropriate action against us.

I /We also understand that partly / wrongly filled application and / or applications not on prescribed pro-forma and / or applications not accompanying relevant documents / enclosures / annexed documents may liable to be summarily rejected by SBI.

I / We understand that this is merely an application & does not entitle me /us to be necessarily qualified in Technical Bid by SBI and SBI reserves the right to reject all and / or any application without assigning any reason whatsoever.

All the terms & conditions, Technical Requirements etc. mentioned in this

Tender are acceptable to us.

(SIGNATURE OF AUTHORIZED
SIGNATORY) NAME:

SEAL OF THE FIRM:

PLACE:

DATE:-

Note: Please enclose all the Annexure with relevant supporting documents duly self-attested

Annexure-A

List of clients whose work has been undertaken/in operation for last 7 years (copy of work orders to be attached):

Sr. No.	Name of the Client, Location, and Name and Mobile No. of Contact Person	Details of Works/ capacity of plant	Number of sites Where solar systems have been provided as per work order
1			
2			
3			
4			
5			
6			
7			
8			

Signature of Authorized Representative _____

Name of Authorized Representative _____

Date: _____

Place: _____

Note: SBI may make telephonic or written inquiries about the work done, including satisfaction of the client, and may also visit the client sites. Vendors should note that by providing the names of the clients in this form, they are authorizing SBI to make inquiries about them with those clients.

ANNEXURE-B

AFFIDAVIT ON A NON-JUDICIAL STAMP PAPER DULY NOTARIZED

(To be stamped as per Stamp Act prevailing at the Centre of execution)

I, _____, sole proprietor/partner/authorized signatory of
M/s. _____ public / private limited company, having its registered office
at.....(Full Address) do hereby solemnly affirm and declare as under: -

1. That our company is not blacklisted by any Bank/ State Government / Central Government / Financial institution, etc.
2. That our company has never been convicted or have any cases pending including cases relating to cheating/fraudulent activities, etc., in the Court of Law, filed by any PSU / Bank/ State Government / Central Government / Financial institution / autonomous body.
3. That our company has never defaulted in execution of any contract, work order, Letter of Intent issued / awarded by any PSU / Bank / institution / State Government / Central Government / Financial institution and has no suit for recovery filed by any govt. organization against us for violation of terms and conditions of tenders.
4. That our Company has an unblemished past track record and our company was never declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any of the above mentioned organizations of Government of India or State Government or autonomous bodies of the Government / PSU Banks for any reasons whatsoever.
5. That after issuance of Work Order / Letter of Intent / Letter of Award, our company has not refused any work and our LOI / LOA has never been cancelled due to non compliance of any terms of RFP / Tender document and /or our EMD has never been forfeited by any Government Department / Undertaking / PSU for any reasons whatever.
6. That no customer of our company is dissatisfied with the Services provided by us and our services are found to be satisfactory by all our clients / PSUs / Banks / Government Departments / other customers.
7. That we are not defaulter of any Bank and our accounts are not NPA at present.

DEPONENT

(Signature of the Authorized Signatory / Proprietor / Managing Partner
/ Director with Seal)

Verified at on.....that the contents of Para 1 to 9 above are true and correct and no part
of this is false and nothing material has been concealed or falsely stated therein.

DEPONENT

(Signature of the Authorized Signatory / Proprietor / Managing Partner
/ Director with Seal)

(Signature & Seal of Notary)

Description of Work:

The proposed work involves supply, installation, testing, commissioning & maintenance (05 Yrs) of Grid connected Roof top solar Power Plants with net metering for the proposed 07 nos. Bank's own Building of SBI Guwahati Circle in seven north east states. The work involves site study, design, supply, installation, testing and commissioning of: Grid connected roof top Solar power plant – Solar PV module (685Wp and above – DCR and Topcon technology complaint), module mounting GI structure, DC-DB, AC-DB, Grid tied hybrid Inverter, AC DB, Solar Generation Meter, SIM enabled data monitoring system, Net/Bidirectional meter as per DISCOM requirements, Obtaining necessary approvals from DISCOMs/Inspectorate, Necessary cable and wires as per standards, lightning arrestors, its associated works, etc. The vendor should work in tandem with the Civil, electrical engineers involved in the same project.

* Please note that all the information desired needs to be provided. Incomplete information may lead to non-consideration of the tender.

* Bank reserves the right to change the dates mentioned in the tender document, which will be published as Corrigendum on the Bank's Website only. Bank reserves the right to amend, rescind or reissue this tender, and all amendments will be published on the Bank's website only and such amendments will be binding on them/ the bidder.

Bid Submission: Vendors shall download the entire Technical Bid to get acquainted with the terms and conditions and put their signature and seal on all pages to acknowledge the same. Submit the signed copy of technical bid as stated above in separate cover – “Cover –A”

The Technical bid cover (Cover–A) shall contain:

- NIT,
- Technical Bid,
- EMD in the form of deposit Slip generated.

The vendor shall submit Price Bid in separate sealed cover – marked as “Cover –B”.

The Price bid cover (Cover –B) shall contain

- Only the price bid in the Bank's specified format.

Both the Bids (Cover–A & Cover-B) shall be put in separate bigger sealed cover super scribed as “SUPPLY INSTALLATION TESTING COMMISSIONING & MAINTENANCE OF GRID CONNECTED ROOFTOP SOLAR POWER PLANTS IN BANK'S OWN BUILDINGS AT VARIOUS LOCATIONS IN NORTHEAST STATES”.

Envelops not super scribed properly will be technically disqualified.

Envelope Template

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

"SUPPLY, INSTALLATION, TESTING COMMISSIONING & MAINTENANCE OF GRIDCONNECTED ROOF
TOP SOLAR POWER PLANTS IN BANK'S OWN BUILDINGS AT VARIOUS LOCATIONS IN NORTH EASTERN
STATES"

From,

Assistant General Manager
(P&E) Premises &Estate
Department
State Bank of
India Local Head

* Canvassing in any form including bringing influence from any person/agency/Officials'/ authorities shall lead to disqualification for the empanelment exercise.

The Bank/SBI reserves the right to accept or reject any or all the applications without assigning any reason thereof and no correspondence will be entertained in this regard.

Assistant General Manager (P&E)
State Bank of India
Local Head Office
Guwahati -781006

GENERAL CONDITIONS OF CONTRACT

1 DEFINITIONS

In constructing these conditions, the specifications, the schedule of quantities, tender and agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires. In this connection, the following terms shall be interpreted as indicated below:

- i) 'The Bank/SBI' shall mean State Bank of India, a body Corporate constituted under State Bank of India Act 1955, having its Corporate Centre at State Bank Bhavan, Madame Cama Road, Mumbai 400 021 and a Premises & Estate Department of LHO at Guwahati and includes the client's representatives, successors and assigns.
- ii) 'Engineer' shall mean an Engineer appointed by the Bank as their representative to give instructions to the Vendors.
- iii) "Bidder/Bidding Company" shall mean an eligible entity/firm submitting the Bid. Any reference to the Bidder includes Bidding Company/firm including its successors, executors and permitted assigns as the context may require.
- iv) "Vendor/Contractor" is the successful Bidder to whom the work has been awarded.
- v) "The Site" means locations where the proposed work is to be carried out and services as desired in this tender document are to be provided.
- vi) "Bid" shall mean the Techno Commercial and Price Bid submitted by the Bidder along with all documents/credentials/attachment's annexure etc., in response to this tender, in accordance with the terms and conditions hereof.
- vii) 'The Contract' shall mean the documents forming the tender and the acceptance thereof and the formal agreement executed between State Bank of India and the Vendor, together with the documents referred therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Bank and all these documents taken together shall be deemed to form one contract and shall be Complementary to one another.
- viii) "The Schedule of Quantities/BOQ" shall mean the schedule of quantities as specified and forming part of this contract.
- ix) 'Contract value' shall mean the value of the entire work as stipulated in the letter of acceptance of tender subject to such additions there to or deductions there from as may be made under the provision herein after contained.
- x) 'Works' or 'project' shall mean the permanent or temporary work described in the 'Scope of Work' and/or to be executed in accordance with the contract and includes materials, apparatus, equipment, temporary supports, fittings and things of all kinds to be provided, the obligations of the Vendor hereunder and work to be done by the Vendor under the contract.
- xi) "The Material/Product" means all the materials along with the accessories which the Vendor is required to supply to the Bank under the Contract for the full and proper performance of its contractual obligations
- xii) 'Drawings' shall mean the drawings prepared either by SBI or Vendor and referred to in the specifications and any modifications of such drawings as may be issued by the Engineer from time to time
- xiii) Specifications shall mean the specifications referred to in the tender and any modifications thereof as may time to time be furnished or approved by SBI.
- xiv) "Month" means calendar month
- xv) "Week" means seven consecutive days.
- xvi) "Day" means a calendar day beginning and ending at 00 Hrs. and 24 hrs respectively.
- xvii) "B.I.S" shall mean specifications of Bureau of Indian Standards (BIS);
- xviii) "CEA" shall mean Central Electricity Authority.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

xix) "COD" means commissioned on date i.e. successful operation of the Project/Works by the Vendor, for the purpose of carrying out Performance Test(s) as defined in tender.

xx) "Capacity Utilization Factor" (CUF) shall mean the ratio of actual energy generated by SPV project over the year to the equivalent energy output at its rated capacity over the yearly period. (CUF = actual annual energy generated from the plant in kWh / (installed plant capacity in kW * 365 * 24).

xxi) "KWp" shall mean kilo-Watt Peak; "kWh" shall mean kilo-Watt-hour;

xxii) "MNRE" shall mean Ministry of New and Renewable Energy, Government of India;

xxiii) "OEM" shall mean Original Equipment manufacturers of Rooftop Solar PV system PV Cells/ Solar Panels.

xxiv) "P B G" means Performance Bank Guarantee between SBI and Successful bidder.

xxv) "Performance Ratio" (PR) means the ratio of plant output versus installed plant capacity at any instance with respect to the radiation measured. $PR = (\text{Measured output in kW} / \text{Installed Plant Capacity in kW}) * (1000 \text{ W/m}^2 \text{ Intensity in W/m}^2) / \text{Measured radiation}$.

An applicable law shall be construed as reference to such applicable law including its amendments or re-enactments from time to time.

a) A time of day shall save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.

b) Different parts of this contract are to be taken as mutually explanatory and supplementary to each other and if there is any differentiation between or among the parts of this contract, they shall be interpreted in a harmonious manner so as to give effect to each part.

c) The table of contents and any headings or subheadings in the contract has been inserted for case of reference only & shall not affect the interpretation of this agreement.

2 INTERPRETATIONS

a) Words importing people include firms and corporations.

b) Words importing the singular only, also include the plural and vice versa where the Context requires.

3. SCOPE OF WORK:

Scope of work covers Design, Manufacture, Supply, Erection, testing & commissioning including 5 years warranty of Grid Connected Roof-top Solar Power System with Bi-directional net metering Arrangement at various locations in Guwahati circle (NORTHEAST STATES). The Vendor shall carry out, complete, and maintain the said work in every respect strictly in accordance with this contract and with the directions of and to the satisfaction of the Bank to be communicated through the Bank's Engineer. The Vendor has to quote the prices considering the following details of the work under the scope of this contract.

SCOPE	DETAILS
Survey	The successful bidder shall assess a) Roof structural conditions to suit the installation, b) Load bearing capacity, c) Solar resource availability, d) Feasible capacity of Solar Power Generation d) Identification health & Safety risks, e) Shadow free area on rooftop f) any other hindrance for hassle free installation and maintenance of the proposed system etc

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

Design	a) Selecting efficient PV Modules as prescribed in the tender, b) Optimum Detailed PV Panels layout c) Inverter selection, d) GI Mounting structure,
	e) Routing cables and connectivity, f) Attaining maximum output (optimization in utilization of rooftop area), g) Ensuring Safety standards...etc.
Manufacture	MNRE approved DCR panel manufacturer in ALMM-II category 'A' and as per relevant standards & specifications
Supply & Installation	a) Procure and supply all the necessary equipment, accessories and any other materials required for the successful implementation of the project b) Obtaining Permits from the relevant regulatory authority, wherever applicable c) Installation of the Solar Power System as per standards d) Wiring up to Bank's Distribution System from the Solar system e) Implementing the Online Monitoring system (SIM based) for Local & Remote Data Monitoring...etc.
Testing	Testing of Modules, System Performance Evaluation, and Capacity Utilization Factor (CUF) etc. of the complete Solar Power system as per the technical specifications.
Commissioning	a) Preparation of Single line diagram as required for obtaining permissions from the required regulatory authority shall be borne by the Vendor b) Liaising and Obtaining Approval of Statutory Authorities like CEA, ESCOMS/DISCOMS, etc. for commissioning of the unit and connecting to the grid etc c) Procure and provide a suitable Bi-directional meter shall be borne by the Vendor. d) Payment of required fees to Govt Authorities like DISCOM/CEA/Municipality / Regulatory authorities etc., shall be borne by Vendor with his cost and the same shall be reimbursed against submission of receipts. Any additional deposits for the Net metering will be paid by SBI e) Any other necessary activity required for successful commissioning of the system shall be within the scope of the Vendor.
Warranty for 5 years from the date of commissioning.	a) The period of the Warranty shall commence from the date of installation and commissioning of Net Metering b) Quarterly Preventive Maintenance Check of the Solar System during warranty period of 5 years. Duly signed report of user department must be submitted for release of Security Deposit after 5 Years. c) Replacement of defective modules, invertors / Power Conditioning Unit (PCU), spares, consumables & other parts d) Rectification of breakdowns and attending to complaints during warranty period of 5 years e) Checking and maintaining the Supporting Structure- replacing the worn out / rusted /corroded parts of the structure during warranty period of 5 years f) Cleaning the Solar panels as and when required to maintain the minimum CUF efficiency levels during warranty period of 5 years

The Bank will issue written instructions/ directions from time to time, detailed directions and explanations which are hereafter collectively referred to as SBI instructions in regard to: the variation or modification of the design, quality or quantity of work or the addition or omission or Substitution of any work, any discrepancy in the drawings or between the BOQ and/or drawings and/or specifications, the removal from the site of any material brought thereon by the Vendor and the substitution of any other materials thereof, the demolition, removal and/or re-execution of any work executed by him, the dismissal from the work of any person employed/engaged there upon.

3 SITE AND ITS LOCATION:

The details of the sites are as given in the LIST as Annexure-5. However, Bank reserves the right to amend / alter the location as desired depending upon the site conditions.

4 EARNEST MONEY DEPOSIT (EMD):

Bidders are required to pay EMD amount as stipulated in the tender. Bids not accompanied by EMD receipt will not be considered. Upon the successful bidder furnishing the signed agreement and ISD, each unsuccessful bidder will be promptly notified and their EMD will be returned without interest within 30 (thirty) days of notice of award of contract on request. The successful supplier's EMD shall be adjusted against the SD.

EXEMPTION FROM EMD: Micro and Small Enterprises (MSE)s are exempted from payment of earnest money, subject to furnishing of relevant valid certificate for claiming exemption. The MSEs must, along with their offer, provide proof of their being registered as MSE (indicating the terminal validity date of their registration) for the item tendered, with any agency mentioned in the notification of the Ministry of Micro, Small and Medium Enterprises (Ministry of MSME), indicated below:

- (a) District Industries Centers.
- (b) Khadi and Village Industries Commission.
- (c) Khadi and Village Industries Board.
- (d) Coir Board.
- (e) National Small Industries Corporation.
- (f) Directorate of Handicraft and Handloom; and
- (g) Any other body specified by the Ministry of MSME.

5 PRICE BID: RATES QUOTED BY BIDDER

The vendor must submit price bid along with the technical bid. The price will be cost per kilowatt (peak) i.e Cost of SITC of per kilowatt of roof top solar Plant including net metering. The Rate per kilowatt peak (KWp) must be applicable for all seven states of Northeast Region. The Vendor shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid for the works and the rates/ amounts stated in the schedule of quantities and/or the schedule of rates and amount as provided covering all his obligations under the contract and all matters necessary for proper completion of the works expected in this document.

Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the Vendor in price bis shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and No extra charges will be paid over and above the contract amount on account of any other charges (existing or future addition) or on any other account.

The GST shall be paid extra as applicable.

The rate quoted shall be firm and rate revision in the contract amount is not permitted during the validity period of the contract for any reason including during the extended period, if any.

Any request for review of the price bid after the bid opening will not be entertained.

Tax exemptions including certificates of any sort, if available may be dealt with the concerned Department of Government of India by the bidder. Bank in no case will be responsible for providing any tax exemptions to the bidder.

6 OPENING AND EVALUATION OF BIDS

The Bids will be opened as stipulated in the NIT. Representatives of Bidder may be present during opening of Bids. However, Bids would be opened even in the absence of any or all the bidder's representatives.

In the two-bid system, the technical bids will be opened at the scheduled time mentioned in the NIT. In case, if the date of opening is declared as nonworking day or Holiday, the bids will be opened on the next working day. The price bid of the qualified vendors will be opened on a subsequent date which will be intimated to the bidders later.

Bids will be examined to determine whether they are conforming to all the terms and conditions of the Bidding Document without any deviations and are generally in order & accompanied by supporting documents. If a Bid does not conform to the terms and conditions, it will be rejected. Bidder must submit all the relevant document required in technical bid as mentioned in the NIT. No further communication will be made to the bidder regarding non-submission of required documents and evaluation will be done strictly based on submitted documents.

During evaluation of bids, SBI may, at its discretion ask the bidders for clarification of its bid. The request for clarification shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. No post bid clarification at

the initiative of the bidder shall be entertained. The tenders must be unconditional. Conditional tenders leading to unknown/indefinite liability may be summarily rejected.

7 OPENING OF PRICE BIDS

Only those Bidders who qualify in technical evaluation would be shortlisted and the price bid submitted by the qualified bidder will be opened only. The rates quoted by the Bidder will be validated / scrutinized by committee and compared to market price for adaptability.

The Bank reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.

8 VALIDITY OF BID

Bids shall remain valid and open for acceptance for a period stipulated in this document. If the Bidder withdraws his/her offer during the validity period or makes modifications in his/her original offer, which are not acceptable to the Bank, without prejudice to any other right or remedy, the Bank shall be at liberty to forfeit the EMD amount.

9 CONTACTING SBI:

No Bidder shall contact SBI on any matter relating to its Bid, from the time of opening of Price Bid to the time the Contract is awarded.

Any effort by a Bidder to influence SBI or Bank in its decisions on Bid evaluation, or contract award may result in rejection of the Bid.

10 AWARDS OF WORKS:

SBI will award the work to successful L1 Bidder whose Bid is the lowest in price bid. A letter of acceptance by e-mail or post will be sent to the bidder.

SBI reserves the right at the time of award of contract to increase or decrease the quantity of work and / or services from what was originally specified while floating the tender, without any change in unit price or any other terms and conditions.

The order will be released centrally by Premises department, but billing is to be done in the name of respective branch/Office and payment will be made from the respective branch/Office. Vendor must ensure that the Bank's GST on the tax invoice/bill must be the Bank's GST of respective state where Branch/Office is situated.

SBI's RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

SBI reserves the right to accept or reject any Bid in part or in full or to cancel the Bidding process and reject all Bids at any time prior to award of the contract, without incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for SBI's action.

The acceptance of a tender rests with the Competent Authority, who does not bind himself to accept the lowest tender and reserves himself the authority to reject any or all the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.

The notification of award will constitute the formation of the Contract. The selected Bidder should convey acceptance of the award of contract by returning duly signed and stamped duplicate copy of the PO within 07 days of receipt of the communication and enter into an agreement with the Bank formation of the Contract.

11.0 INITIAL SECURITY DEPOSIT

The successful bidders shall submit Initial security deposit of 2% of contract value in favour of the Bank, unless or otherwise specified, by means of DD or credit the amount in Bank's account as mentioned for EMD amount within a period of 07 days of acceptance of Bid. No interest shall be paid in the amount retained by the Bank as Security Deposit.

12. SIGNING OF CONTRACT DOCUMENTS

The successful Bidder shall be bound to execute the Agreement within 07 days from the receipt of intimation of acceptance of his Bid by SBI. However, the written acceptance of the Bid by SBI will constitute a binding agreement between the Bank and successful Bidder pending execution of formal agreement. All expenses, stamp duty and other charges/ expenses in connection with the execution of the Agreement because of this tendering process shall be borne by the successful bidder. Bank is liable to **vendor** bills if any submitted by the vendors only if agreement is executed as stated above.

13.0 COMMENCEMENT OF WORKS

The date of commencement of the work will be reckoned as the recorded date of handing over site by SBI or 10 days from the date of issue of Letter of Acceptance of Bank, whichever is later. The Bidder shall complete the project survey, design, engineering, manufacture, supply, storage, civil work, erection, testing & commissioning of each project within time as specified in the NIT from the date of issue of allocation letter

14.0 RATE OF PROGRESS

Whole of the materials, plant and labour to be provided by the Vendor and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in a manner to the satisfaction of SBI. Should the rate of progress of the work or any part thereof be at any time be in the opinion of SBI too slow to ensure the completion of the whole of the work by the prescribed time (in NIT) or extended time for completion SBI shall there upon take such steps as considered necessary by SBI to expedite progress so as to complete the works by the prescribed time or extended time. Such communications from SBI shall neither relieve the Vendor from fulfilling obligations under the contract nor he shall be titled to raise any claims arising out of such directions.

15.0 COMPLETION PERIOD

The Successful Tenderer shall be complete the work within time period (as mentioned in the NIT) from the date of the work order issued to the Vendor to commence the work.

- i) The work shall be considered as complete only when the certificate of virtual completion is issued by the Bank.
- ii) The 'defects liability period' as prescribed in the contract shall commence only from date of such virtual completion.
- iii) Any defect that may appear within the defect's liability period shall be rectified by the Vendor within reasonable time on receipt of necessary instructions from Bank to that effect.

16.0 VIRTUAL COMPLETION CERTIFICATE (VCC)

On successful completion of entire works covered by the contract, the Vendor shall ensure that the following works have been completed to the satisfaction of SBI.

- a) Clear the site of all scaffolding, wiring, pipes, surplus materials, Vendor's labour, equipment and machinery.
- b) Demolish, dismantle and remove the Vendor's temporary works, structures including labour sheds/camps and constructions (if any) and other items and things whatsoever brought upon or erected at the site or any land allotted to the Vendor by SBI and not incorporated in the permanent works.
- c) Remove all rubbish, debris etc. from the site and the land allotted to the Vendor by SBI and shall clear, level and dress, compact the site as required by SBI.
- d) All defects/imperfections made to SBI properties while installation of Solar PV System have been attended and rectified as pointed out by SBI to the full satisfaction of SBI.

Upon the satisfactory fulfillment by the Vendor as stated above, the Vendor shall be entitled to apply to SBI for the certificate. If SBI is satisfied of the completion of the work, relative to which the completion certificate has been sought, SBI shall within fourteen (14) days, issue a VCC in respect of the work for which the VCC has been applied.

17.0 PAYMENT TERMS

- i) No advance payment.
- ii) Payment shall be made by way of electronic fund transfer
- iii) Vendor should furnish details of the bank a/c no, IFSC code in their invoices.
- iv) **Bills must be generated with respective state GST of Bank Branches/offices. Payment shall be made at the Branches/offices.**
- v) 0% will be released after completion of the installation and successful commissioning system
- vi) 20% will be released after verification of the average power generation of the plant shall be minimum of 4 KWH per day per KW on clear sunny days and installation of Bi-Directional meter & completion in all respects.
- vii) 10% SD will be released after completion of 5 years warranty, or it can be released against submission of valid PBG with a validity of 5 years from the date of installation & commissioning of Bi- Directional meter. It is in discretion of the user branch/office to accept or reject PBG.
- viii) Tax deduction: As per applicable rates

Part/Interim payment is paid as per the payment terms mentioned in the NIT. All the interim payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the requiring of bad, unsound, and imperfect or unskilled work to be removed and taken away and reconstructed, or re-erected or be considered as an admission of the due performance of the contract, or any part thereof in any respect or the accruing of any claim, nor shall, it conclude, determine or affect in any way the power of the Employer under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or affect the contract.

If the Bank has supplied any materials or goods to the Vendor, the cost of any such materials or goods will be progressively deducted from the amount due to the Vendor in accordance with the quantities consumed in the work.

The final bill shall be accompanied by a certificate of completion or Commissioning report signed by an official of the Bank. Payments of final bill shall be made after deduction of Retention Money as specified, which shall be refunded after the completion of the Defects Liability Period provided the Vendor has rectified all defects to the satisfaction of the Bank. The acceptance of the payment of the final bill by the Vendor would indicate that he has no further claim in respect of the work carried out.

Statutory deduction towards income tax and other taxes as and when directions from statutory bodies are received will be made at the time of making payments as applicable as per Government Rules. GST-TDS as per applicable rates will be deducted, wherever applicable.

18.0 GOODS AND SERVICES TAX (GST):

- a. It is the responsibility of the bidder to ensure that the GST registration number is valid and active. Payments will not be made to inactive or invalid GST invoices. Non-GST invoices will not be accepted.
- b. Invoice should specifically disclose the amount of GST levied at applicable rate as per GST provision
- c. In case of Correction in the bills after scrutiny, Vendor should submit fresh bills for payment
- d. Vendor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the Vendor
- e. The works will be paid for as "measured work" based on actual work done and not as "lump sum" contract, unless otherwise specified.
- f. All items of work described in the schedule of quantities are to be deemed and paid as complete work in all respects and details including preparatory and finishing works involved, directly related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lump

sum charges in the tender, in respect of any items of work, payment will be made for the actual work done on the basis of lump sum charges, as will be assessed by SBI.

19. PERIOD OF CONTRACT & EXTENSION OF TIME

19.1 Time is the essence of the contract. The Contract shall be executed within the stipulated period in the NIT. No request for extension will be entertained, and the bidder has to plan and mobilize his resources for the satisfactory completion of the project within the time period agreed in the tender.

19.2 If in the opinion of the Bank, the work is delayed due to the following reasons not attributable to the Vendor, the employer shall make a fair and reasonable extension of time, for completion of the Contract works

- a. By force majeure (or)
- b. By reason of any exceptionally inclement weather (or)
- c. By reason of proceedings taken or threatened by or dispute with adjoining or neighboring owners of public authorities arising, then through the Vendor's own default (or)
- d. By the works not referred to in the Schedule of Quantities or specifications (or)
- e. By reason of civil commotion, workmen strike or lock-out (or)
- f. In consequence of the Vendor not having in due time, necessary instructions from the Bank for which he shall have specifically applied in writing ahead of time, giving reasonable time to prepare such instructions

19.3 In case of such strike or lock-out, the Vendor shall as soon as possible give written notice thereof to the employer, but the Vendor shall nevertheless constantly use his endeavors to prevent delays and shall do all they may reasonably be required, to proceed with the work.

19.4 In case the work is held up for any site conditions not attributable to the Vendors or for any decisions instructions / want of details from Bank or for any of the conditions, the Vendor shall be allowed reasonable extension of time by the Bank but any claim for idle labour shall not be entertained by the Bank. Vendor's quoted rates should include all such contingencies.

19.5 If the completion of work is likely to be delayed for any reasons beyond control and the due date of completion as stipulated in the contract, the Vendor shall apply to SBI in writing at least 15 days before the expiry of the scheduled time and while applying for extension of time he shall furnish there as on in detail and his justification if any, for the delays. While granting extension of time the Vendor should be informed of the extended period which will qualify for levy of liquidated damages. For the balance period more than original stipulated period and duly sanctioned extension of time by SBI the provision of liquidated damages as stated in the bid document shall become applicable. Further contract shall remain in force even for the period beyond the due date of completion irrespective of whether the extension is granted or not.

20. LIQUIDATED DAMAGES/ PENALTY FOR DELAY IN COMPLETION:

If the Vendor fails to maintain the required progress or to complete the work and clear the site including removing debris on or before the contracted or extended date or completion without justification in support of the cause of delay, he may be called upon without prejudice to any other right of remedy available under the law to SBI on account of such breach to pay a liquidated damages at the rate of 0.5% of the contract value per week or part thereof subject to a maximum of 5% of the contract value. Upon further delay, the allocation of project order shall be cancelled, and the Security Deposit amount would be forfeited.

All costs, damages or expenses which SBI may have paid or incurred, which under the provisions of the Contract, the Successful bidder is liable/will be liable, will be claimed by SBI. All such claims shall be billed by SBI to the Vendor / Successful bidder under the contract or may be recovered by actions of law or otherwise, if the Successful bidder fails to satisfy SBI of such claims.

In any case in which under any clause or clauses of this contract, the Vendor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit SBI shall have the power to rescind the contract (of which rescission notice in writing to the Vendor by SBI shall be conclusive evidence) and in which case the security deposit of the Vendor shall be forfeited and be absolutely at the disposal of SBI.

21. SECURITY DEPOSIT (SD)

Retention Money: From each running bill, an amount at the rate of 10% of the gross value of the running bill shall be recovered as retention money, till the total retention amount including the ISD amount already with the Bank become 10% of the value of the total contract amount. This amount is called Total Security Deposit, which consists of two components

- a) ISD-Initial Security Deposits.
- b) RM-Retention Money.

The total security deposit will be kept with the Bank. The total security deposit amount shall be refunded without interest to the Vendor 30 days after the end of defects liability period on request, provided he has satisfactorily carried out all the works and attended to rectification of all defects in accordance with the conditions of the contract including clearing the site.

The Vendor should make good at his own cost and to the satisfaction of the Bank all defects, which may appear within the defect's liability period. In case of failure on the part to do so, the cost of rectifying the defects through any other agency shall be deducted from the amount of security deposit due to the Vendor.

During the contract period, all compensation or other sums of money payable by the Vendor to Bank under the terms of this contract, will be deducted from the security deposit, or from any sum that may become due to the Vendor on any account whatsoever.

In the event of the Security Deposit being reduced for reasons of any such deduction, the Vendor shall within 7 days be asked to make good, by DD, any sum which has been deducted from his security deposit.

22.0 PERFORMANCE BANK GUARANTEE (PBG) in lieu of SECURITY DEPOSIT:

- i. The security Deposit retained by the Bank will be released against a PBG for a similar amount valid for the entire period of the contract including the warranty period. Format of PBG will be provided by SBI at the time of commissioning and handing over by the Vendor.
- ii. The Bank Guarantee is required to protect the interest of the Bank against delay in supply/installation and the risk of non-performance of System provided; or poor performance of the material or system sold; or breach of any terms and conditions of the Agreement, which may warrant invoking of Bank Guarantee.

23.0 EXECUTION OF WORKS:

The Vendor shall carry out and complete the works as per standard specifications / as stipulated in this contract and relevant IS recommendations in coordination with the branches/offices and to the satisfaction of the Bank. SBI will issue further written instructions, detailed directions and explanations with respect to the specifications, quality or quantity of works or the addition or omission or substitution of any work.

24.0 VARIATION IN QUANTITY / SUBSTITUTION OF ITEM

The Schedule of Quantities, unless otherwise stated, shall be deemed to have been prepared in accordance with the Standard Procedure shall be approximate and no liability is attached to the Bank for any error which may be discovered therein.

The Bank reserves the right to increase or decrease or delete or omit or execute only a part or the whole or any excess thereof, as per the site requirements, without assigning any reason there for at the time of allotment / execution of work. Vendor will be paid for the actual work done at the site. No variation shall vitiate the contract.

The tender rates shall be fixed and applicable for any increase or decrease in the tendered quantities. Nothing extra will be paid by the Bank on account of omission / deletion of items or decrease in the quantity of items. The Bank shall not entertain any claim whatsoever from the Vendor on this account. Payment will be made on actual measurement of the work done. All measurements shall be as per relevant I.S. standards

Bank reserves the right to order more quantities than what is mentioned in this tender (at the same rate and terms and conditions) either at the same site or other sites as per the need within the validity of this tender.

The price of all additional items/non-tendered items will be worked out based on rates quoted for similar items in the contract wherever they exist. If similar items are not available, the rates for such items will be derived as per standard method of rate analysis based on prevalent fair price of labour, material and other components as required with 15% towards Vendor's profit and overheads.

25.0 MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS

All the works specified and provided for in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most work man like manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars, and instructions as may from time to time be given by SBI during the execution of the work and to his entire satisfaction. The Vendor uses only products bearing ISI marking in the work for those materials for which no makes are mentioned in the tender.

No refurbished, second hand and spurious materials should be used. If required, the Vendor must submit the details of the source of his purchase of materials to SBI. SBI reserves its right to enquire and collect data from the supplier to confirm the authenticity of the materials. SBI has the right to stringent action against the Vendor, as deemed fit, in addition to suspending / cancel the contract.

Vendor should get approval of the samples of materials in advance with SBI's Engineer before using the same in the work. Should be Vendor desire to substitute any specified materials with "Equal" or "Other approved" etc., he/they must obtain the specific approval of the Bank in writing for any such substitution, well in advance.

Samples of all materials to be used must be submitted when so directed by SBI. If required, the Vendor shall have to carry out tests on materials in approved materials testing laboratories or as prescribed by SBI at his own cost to prove that the materials etc., under test conform to the relevant I.S Standards or as specified in the specifications. The necessary charges, transporting, testing etc., shall have to be borne by the Vendor. No extra payment on this account will be entertained.

If the Vendor has used any material which is not complying with the specifications or the workmanship is bad or the material used is substandard or second hand etc, SBI shall during the progress of the work have power to order the removal and substitution of the material or proper re-execution of the work within a reasonable time. In case the Vendor refuses to comply with the order, SBI shall have the power to employ other agencies to rectify or re-execute the work at the cost and risk of the Vendor.

Any damage (during the work) to any part of the work or to the premises for any reasons due to rain, storm or neglect of Vendor shall be rectified by the Vendor in an approved manner at no extra cost.

Should the work be suspended because of rain, strike, lockouts or any other cause, the Vendor should take all precautions necessary for the protection of work and at his own expense shall make good any damage arising from any of these causes.

When the Bank observes that the progress of the work is not satisfactory or very slow or not in a workmanship manner or of poor quality or violation of safety protocols etc, the Vendor should be issued suitable advice to rectify the same or replace the materials or redo the entire work, within a reasonable time frame. If the Vendor could not rectify the things within the time frame given, in the interest of the work, the Employer reserves the right to execute any part of the work included in this contract or the entire work by any other Agency or persons and Vendor shall allow all reasonable facilities and extend cooperation for the execution of such work.

All expenses consequent thereon or incidental thereto as certified by SBI shall be borne by the Vendor or may be deducted from any money due to or that may become due to the Vendor. No certificate shall relieve the Vendor from his liability in respect of unsound work or bad materials.

26.0 DETAILED DRAWINGS AND INSTRUCTIONS

The successful bidder shall survey the project site location, design the solar PV system and furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary or the proper execution of the work. All such drawings and instructions shall be pre-approved by SBI and thereto consistent with the contract documents, true developments thereof and reasonably inferable there from. The work shall be executed in conformity therewith and the Vendor prepares a detailed program schedule indicating therein the date of start and completion of various activities on receipt of the work order and submitting the same to SBI

27.0 LANGUAGE ERRORS, OMISSIONS AND DISCREPANCIES

In case of errors, omissions and/or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications etc., the following order shall apply.

- i) Between scaled and written dimensions (or description) on a drawing, the latter shall be adopted.

- ii) Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the former shall be taken as correct.
- iii) Between the duplicate/subsequent copies of the tender, the original tender shall be taken as correct.
- iv) The Bank / SBI clarification regarding partially omitted particulars of typographical or Clericals errors shall be final and binding on the Vendors.

28.0 PROTECTION OF WORKS AND PROPERTY

The Vendor shall continuously maintain adequate protection, of all his work from damage and shall protect SBI's properties from injury or loss arising in connection with contract. The Vendor shall be responsible for any loss or damage to SBI property, materials, tools or other articles used for use in connection with the work. He shall make good any such damage, injury, loss due to his fault or negligence except which are due to causes beyond his control. He shall take adequate care and steps for protection of the adjacent properties.

The Vendor shall take all precautions for safety and protection of his employees on the works and shall comply with all applicable provisions of Government and local bodies safety laws and building codes to prevent accidents, or injuries to persons or property of about or adjacent to his place of work. The Vendor shall take insurance covers as per insurance clause mentioned in the NIT at his own cost.

In case the Vendor refuses to comply with the order the Employer shall have the power to employ and pay other agencies to carry out the work and all expenses consequent or incidental there to as certified by the Bank/SBI/shall be borne by the Vendor or may be deducted from any money due to or that may become due to the Vendor. No certificate shall relieve the Vendor from his liability in respect of unsound work or bad materials.

29.0 QUALITY OF MATERIALS, WORKMANSHIP & STANDARDS

The Design, engineering, manufacture, supply, installation, testing and performance of the equipment shall be in accordance with latest appropriate IEC/Indian Standards as detailed in the technical specifications of the bid document. Where appropriate Indian Standards and Codes are not available, other suitable standards and codes as approved by the MNRE shall be used.

The specifications of the components should meet the requirements mentioned in technical specifications.

Any supplies which have not been specifically mentioned in this Contract, but which are necessary for the design, engineering, manufacture, supply & performance or completeness of the project shall be provided by the Bidder without any extra cost and within the time schedule for efficient and smooth operation and maintenance of the SPV plant.

30.0 WORK PERFORMED AT VENDORS RISK

All work shall be done by the Vendor with utmost care and if any loss or damage shall result from fire or from others cause, the Vendor shall promptly make good such loss or damage or replace and make the Bank free from all such expenses. The work shall be carried on to completion without interference with the operations of existing machinery or equipment, if any. In case, performance of Solar PV System found Unsatisfactory during any time, SBI has rights to terminate the contract.

31.0 AUTHORITIES, NOTICES, PATENT RIGHTS AND ROYALTIES

The Vendor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulations and Bye-Laws of any authorities, and/or any water, lighting and other companies, and/ or authorities with whose systems the structures were proposed to have connection and shall before making any variations from the drawings or specifications that may be associated to so conform, give the Bank / SBI written notices specifying the variations proposed to be made and reasons for making them and apply for instruction there on. The Bank/SBI on receipt of such intimation shall give a decision within a reasonable time.

The Vendor/s shall arrange to give all notices required for by the said Acts, Regulations or Byelaws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Employer.

The Vendor shall indemnify the Bank against all claims in respect of patent rights, designs, trademarks or name or the protected rights in respect of any constructional plant, machine, work or material used for or in connection with the works or

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

temporary works and from and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto. The Vendor shall defend all actions arising from such claims, unless he has informed SBI/, before any such infringement and received their permission to proceed and shall himself pay all royalties, license fees, damages, cost and charges of all and every sort that may be legally incurred in respect thereof.

32.0 PERMITS, LAWS AND REGULATIONS

Permits and licenses required for the execution of the work shall be obtained by the Vendor at his own expenses. The Vendor shall give notices and comply with the regulations, laws, and ordinances rules, applicable to the contract. If the Vendor observes any discrepancy between the drawings and specifications, he shall promptly notify SBI in writing. If the Vendor performs any act which is against the law, rules and regulations he shall meet all the costs arising there from and shall indemnify SBI any legal actions arising there from.

33.0 OBTAINING INFORMATION RELATED TO EXECUTION OF WORK

No claim by the Vendor for payment shall be entertained for installation of Solar PV System. The Successful Bidder shall survey and study the rooftop area of location for the feasibility and maximum capacity (shadow free area), can be incorporated. Any incorrect information or the failure to obtain correct information will not relieve him from any risks or from the entire responsibility for the fulfillment of contract. All the acquired data are to be certified/ approved by SBI Engineer, before proceeding further.

34.0 ASSIGNMENT AND SUB LETTING

The whole of the works included in the contract shall be executed by the Vendor and the Vendor shall not directly or indirectly transfer, assign or underlet the contract or any part, share or interest therein nor, shall take a new partner, without written consent of the Bank and no subletting shall relieve the Vendor from the full and entire responsibility of the contract or from active superintendence of the work during their progress

35.0 NO COMPENSATION FOR RESTRICTIONS OF WORK

If, at any time, after acceptance of the tender, SBI shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not require the whole or any part of the work to be carried out, SBI shall give notice in writing to that effect to the Vendor and the Vendor shall act accordingly in the matter.

In such case, the Vendor shall not claim any charges on the cartage or cost of materials brought to the site of the work by him. Ownership of material rests on the successful bidder and he should remove materials and vacate the premises on his own.

36.0 SUSPENSION OF WORK

- i) The Vendor shall, on receipt of the order in writing of SBI (whose decision shall be final and binding on the Vendor) suspend the progress of works or any part thereof for such time and in such manner as SBI may consider necessary so as not cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons.
 - a) On account any default on the part of the Vendor, or
 - b) For proper execution of the works or part thereof for reasons other than the default of the Vendor to, or
 - c) For safety of the work or part thereof.

The Vendor shall, during such suspension, properly protect and secure the work to the extent necessary and carry out the instructions given in that behalf by SBI.

- ii) If the suspension is ordered for reasons (b)and (c)in sub-Para(i)above: The Vendor shall be entitled to an extension of time equal to the period of every such suspension. No compensation whatsoever shall be paid on this account.

37.0 INSURANCE OF WORKS

Without limiting his obligations and responsibilities under the contract the Vendor shall insure in the joint names of SBI and the Vendor against all loss or damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that SBI and Vendor are covered for the period stipulated in NIT and are also covered during the period of maintenance/warranty for loss or damage arising from a cause, occurring prior to the

commencement of the period of maintenance/warranty and for any loss or damage occasioned by the Vendor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

- a) The works for the time being executed to the estimated current Contract value thereof, or such additional sum as may be specified together with the materials for incorporation in the works at their replacement value.
- b) The constructional plant and other things brought on to the site by the Vendor to the replacement value of such constructional plant and other things.
- c) Such insurance shall be affected by an insurer and in terms approved by SBI which approval shall not be unreasonably withheld, and the Vendor shall whenever required produce to SBI the policy of insurance and the receipts for payment of the current premiums.

38.0 DAMAGE TO PERSONS AND PROPERTY

The Vendor shall, except if and so far as the contract provides otherwise, indemnify SBI against all losses and claims in respect of injuries or damages to any person or material or physical damage to any property what so ever which may arise out of or in consequence of the execution and maintenance/warranty of the works and again stall claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

The permanent use or occupation of land by or any part thereof.

The right of SBI to execute the works or any part thereof, on, over, under, in or through any lands.

Injuries or damage to persons or properties are unavoidable result of the execution or maintenance/warranty of the works in accordance with the contract.

Injuries or damage resulting from any act or neglect of Vendor, to persons or property of SBI, their agents, employees or other Vendors not being employed by the Vendor or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the Vendor, his servants or agents such part of the compensation as may be just and equitable having regard to the extent of the responsibility of SBI, their employees, or agents or other employees, or agents or other Vendors for the damage or injury.

Vendor to indemnify SBI

The Vendor shall indemnify SBI against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the various clauses of this tender.

Vendor's superintendence

The Vendor shall fully indemnify and keep indemnified SBI against any action, claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claim made under or action brought against SBI in respect of such matters as afore said the Vendor shall be immediately notified thereof and the Vendor shall be at liberty, at his own expenses to settle any dispute or to conduct any litigation that may arise there from, provided that the Vendor shall not be liable to indemnify SBI if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by SBI in this behalf.

Third Party Insurance

Before commencing the execution of the work the Vendor but without limiting his obligations and responsibilities shall insure against his liability for any material or physical damage, loss, or injury which may occur to any property including that of SBI, or to any person, including any employee of SBI, by or arising out of the execution of the works or in the carrying out of the contract

Minimum Amount of Third-Party Insurance: Such insurance shall be affected with an insurer and in terms approved by SBI which approval shall not be reasonably withheld and for at least the amount stated below. The Vendor shall, whenever required, produce to SBI the policy or policies of insurance cover and receipts for payment of the current premiums.

Minimum Insurance Cover

The minimum insurance cover for physical property, injury, and death is Rs.5.0lacs per occurrence with the number of occurrences limited to four. After reaching occurrence Vendor will pay additional premium necessary to make insurance valid for four occurrences always.

Accident or Injury to Workmen

SBI shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the Vendor or any sub-Vendor, save and except an accident or injury resulting from any act or default of SBI or their agents, or employees. The Vendor shall indemnify and keep indemnified SBI against all such damages and compensation, save and except as aforesaid and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

Insurance against accidents etc. to workmen The Vendor shall insure against such liability with an insurer approved by SBI during the whole of the time any person employed by him on the works and shall, when required, produce to SBI such policy of insurance and receipt for payment of the current premium. Provided always that, in respect of any persons employed by any sub-contractor the Vendor's obligation to insure as aforesaid under this sub-clause shall be satisfied if the sub-Vendor shall have insured against the liability in respect of such persons in such manner that SBI is indemnified under the policy but the Vendor shall require such sub-contractor to produce to SBI when required such policy of insurance and the receipt for the payment of the current premium.

Remedy on Vendor's failure to insure

If the Vendor fails to effect and keep in force the insurance referred to above or any other insurance which he may be required to effect under the terms of contract, then and in any such case SBI may effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by SBI as aforesaid and also deduct 15% of contract value from any amount due or which may become due to the Vendor, or recover the same as debt from the Vendor.

Without prejudice to the other rights of SBI against Vendors, in respect of such default, the Bank shall be entitled to deduct from any sums payable to the Vendor the amount of any damage's costs, charges, and other expenses paid by SBI and which are payable by the Vendors under this clause. The Vendor shall upon settlement by the insurer of any claim made against the insurer pursuant a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the money received from the insurer in respect of such damage shall be paid to the Vendor and the Vendor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged.

39.0 COMMISSIONING:

The projects shall be commissioned within a period of as specified in the NIT from the date of execution of the LoA. Subject, delay in commissioning, beyond the Scheduled Commissioning Period shall involve penalties.

40.0 WORK BY OTHER AGENCIES

SBI reserves the rights to use premises and any portion of the site for execution of any work not included in the scope of this contract which it may desire to have carried out by other people simultaneously and the Vendor shall not only allow but also extend reasonable facilities for the execution of such work. The Vendor however shall not be required to provide any plant or material for the execution of such work except by special arrangement with SBI. Such work shall be carried out in such manners not to impede the progress of the work included in the contract.

41.0 OWNER'S RIGHT TO TERMINATE THE CONTRACT

If the Vendor being an individual or a firm commit any 'Act of Insolvency' or shall be adjusted an insolvent or being an incorporated company shall have an order for compulsory winding up voluntarily or subject to the supervision of Government and of the Official Assignees of the liquidator in such acts of insolvency or winding up shall be unable within seven days after notice to him to do so, to show to the reasonable satisfaction of SBI that he is able to carry out and fulfill the contract, and to give security therefore if so required by SBI. Or if the Vendor (whether an individual firm or incorporated Company) shall suffer execution to be issued or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the Vendor Or shall assign or sublet this contract without the consent in writing of SBI or shall charge or encumber this contractor any payment due to which may become due to the Vendor there under.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

- a) Has abandoned the contract; or
- b) Has failed to commence the work, or has without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from SBI written notice to proceed, or
- c) Has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- d) Has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from SBI that the said materials were condemned and rejected by SBI under these conditions: or
- e) Has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this contract to be observed and performed by the Vendor for seven days after written notice shall have been given to the Vendor to observe or perform the same or has to the detriment of good workmanship or in defiance of SBI's instructions to the contrary subject any part of the contract.

Then and in any of said cases SBI, after giving seven days' notice in writing to the Vendor, terminated the contract without any conditional clauses.

42.0 SETTLEMENT OF DISPUTES AND ARBITRATION

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or the execution or failure to execute the same, whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

- i) If the Vendor considers that he is entitled to any extra payment or compensation in respect of the Works over and above the amounts admitted as payable by SBI or in case the Vendor wants to dispute the validity of any deductions or recoveries made or proposed to be made from the contract or raise any dispute, the Vendor shall forth with give notice in writing of his claim, or dispute to the Assistant General Manager (Premises & Estate)/ Dy. General Manager(Premises) and endorse a copy of the same to SBI, within 30 days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the Vendor shall not been titled to raise any claim nor shall the Bank be in any way liable in respect of any claim by the Vendor unless notice of such claim shall have been given by the Vendor to the Assistant General Manager (Premises & Estate) in the manner and within the time as aforesaid. The Vendor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to the Assistant General Manager (Premises & Estate) in writing in the manner and within the time aforesaid.
- ii) The Assistant General Manager (Premises & Estate) shall give his decision in writing on the claims notified by the Vendor. The Vendor may within 30 days of the receipt of the decision of the Assistant General Manager (Premises & Estate) /Dy. General Manager (Premises) submit his claims to the conciliating authority namely the Circle Development Officer/General Manager (Corporate Services) for conciliation along with all details and copies of correspondence exchanged between him and the Assistant General Manager (Premises & Estate) / Dy. General Manager (Premises).
- iii) If the conciliation proceedings are terminated without settlement of the disputes, the Vendor shall, within a period of 30 days of termination thereof shall give a notice to the concerned Chief General Manager of the Bank for appointment of an arbitrator to adjudicate the notified claims failing which the claims of the Vendor shall be deemed to have been considered absolutely barred and waived.
- iv) Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the Vendor as aforesaid and all claims of the Bank shall be referred for adjudication through arbitration by the Sole Arbitrator appointed by the Chief General Manager. It will also be no objection to any such appointment that the Arbitrator so appointed is a Bank Officer and that he had to deal with the matters to which the Contract relates in the course of his duties as Bank Officer. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid by the said Chief General Manager/. Such person shall be entitled to proceed with reference from the stage at which it was left by his predecessor.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each dispute along with the notice for appointment of arbitrator.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

It is also the term of this contract that no person other than a person appointed by such Chief General Manager aforesaid should act as arbitrator.

The conciliation and arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act 1996 or any statutory modification or re-enactment thereof and the rules made there under.

It is also a term of the contract that if any fees are payable to the arbitrator these shall be paid equally by both the parties. However, no fees will be payable to the arbitrator if he is a Bank Officer.

It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any of the arbitrator) shall be in the discretion of the arbitrator whom any direct to any by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

SPECIAL CONDITIONS OF CONTRACT

In the event of any discrepancy with clauses mentioned anywhere else in the tender with the clauses mentioned within General conditions of contract, the clauses mentioned within the special conditions of contract shall supersede those mentioned elsewhere.

1.0 WORK DURING NIGHTS AND HOLIDAYS

Subject to any provision to the contrary contained in the contract no permanent work shall save as here in provided be carried on during the night or on holidays without the permission in writing of SBI, save when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the work in which case the Vendor shall immediately advise SBI.

However, the provision of the clause shall not be applicable in the case of any work which becomes essential to carry by rotary or double shifts in order to achieve the progress and quality of the part of the work being technically required and continued with the prior approval of SBI at no extra cost to SBI. All work at night after obtaining approval from competent authorities shall be carried out without unreasonable noise and disturbance.

2.0 CUTTING AND MAKING GOOD

Where it is found necessary to interfere with finished work in order to execute this contract, the Vendor will be required to do all necessary work at his expenses. Only approved hangers and bolts or other metal fixing devices shall be used to secure frames panels and other units in position. Wooden plugs will not be permitted. Holes shall be formed with electric drills whenever possible.

Puncturing or drilling the roof or structural members in the site are not allowed without prior consent of the Bank.

3.0 WATER & POWER SUPPLY:

The Vendor shall make at his own cost arrangements for water and power required for the work and power distribution system for driving plant or machinery and for lighting purposes. Nothing extra will be paid for the same. He has to obtain necessary approvals from the appropriate authorities, if required.

CUSTODY AND SECURITY OF MATERIALS

The Vendor shall store their materials like fixtures, cables, DBs, wires, tools etc at the site with the permission of the Bank. However, the Vendors shall be responsible for the custody and security of all materials and equipment at site. He will provide full time watchman to look after his materials, stores, equipment etc. No claim for loss or theft will be entertained by the Bank. Shelter or stay and other amenities for the technicians have to be arranged by the Vendor at his own expense and responsibility.

On completion of the works, the Vendor shall remove all tools, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workman like condition to the satisfaction of the Bank

4.0 MAINTENANCE OF REGISTERS:

The Vendor shall maintain the following registers at the site and should produce the same for inspection of SBI whenever desired by them. The Vendor shall also maintain the records/registers as required by the local authorities/Government from time to time.

- a) Register for hindrance to work
- b) Register for labour

5.0 LOCAL LAWS, ACTS, REGULATIONS

The Vendor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulations and Bye-Laws of any authorities like Electricity, Pollution Control Boards, Municipal Authorities, water and Sewerage boards and shall before making any variations from the drawings or specifications that may be associated to so conform, give the Bank written notices specifying the variations proposed to be made and reasons for making them and apply for instruction thereon. The Bank on receipt of such intimation shall give a decision within a reasonable time.

The Vendor/s shall arrange to give all notices required for by the said Acts, Regulations or Byelaws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Bank. The Vendor shall indemnify the Bank against all claims in respect of patent rights, designs, trademarks or name or the protected rights in respect of any equipment, machine, work or material used for or in connection with the works or temporary works and from and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto. The Vendor shall defend all actions arising from such claims, unless he has informed the Employer, before any such infringement and receives their permission to proceed and shall himself pay all royalties, license fees, damages, coat and charges of all and every sort that may be legally incurred in respect thereof.

The Vendor shall keep the Bank saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the Bank in connection with any claim that may be made by any workmen.

The Vendor shall strictly adhere to all prevailing labour laws inclusive of Contract Labour (Regulation and Abolition Act of 1970), in case the Vendor is principal employer where vendor engages sub-contractors if any and other safety regulations. The Vendor shall comply with the provision of all labour legislation including the latest requirements of all the Acts, laws, any other regulations that are applicable to the execution of the project.

- a) Minimum Wages Act, 1948 (Amended)
- b) Payment of Wages Act 1936 (Amended)
- c) Workman's Compensation Act 1923 (Amended)
- d) Contract Labour Regulation and Abolition Act 1970 and Central Rules 1971(Amended)
- e) Apprentice Act1961 (Amended)
- f) Industrial Employment (Standing Order) Act 1946 (Amended)
- g) Personal Injuries (Compensation Insurance) Act 1963 and any other modifications
- h) Employees Provident Fund and Miscellaneous Provisions Act 1952 and amendment
- i) Shop and Establishment Act
- j) Any other Act or enactment relating thereto, and rules framed there under from time to time.

All the Licenses and necessary Registers to be maintained by the Vendor shall be verified by SBI anytime.

6.0 DEBARRED FROM PARTICIPATING IN FUTURE TENDERS

SBI reserves the right to carry out the performance review of each Bidder from the time of submission of Bid onwards. In case it is observed that a bidder has not fulfilled its obligations in meeting the various timelines envisaged, in addition to the other provisions of the Tender, such Bidders may be debarred from participating in SBI any future tender for a period as decided by the competent authority of SBI.

7.0 SAFETY CODE/SAFETY MEASURES:

The bidder shall take entire responsibility for electrical safety of the installation (s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

8.0 FORCE MAJEURE:

Neither Vendor nor SBI shall be considered in default in performance of their obligations if such performance is prevented or delayed by events such as wars, insurrections, revolution, civil disturbance, riots, terrorist acts, public strikes, hartal, bandh, fires, floods, epidemic, quarantine restrictions, freight embargoes, declared general strikes in relevant industries, hostilities, droughts, earthquakes or ordinances or any act of God or for any other cause beyond the reasonable control of the party affected or prevented or delayed. However, a notice is required to be given within 30 days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.

As soon as the cause of force majeure has been removed the party whose ability to perform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.

From the date of occurrence of a case of force majeure obligations of the party affected shall be suspended during the continuance of any inability so caused. With the cause itself and inability resulting there from having been removed, the agreed time of completion of the respective obligations under this agreement shall stand extended by a period equal to the period of delay occasioned by such events.

Should one or both parties be prevented from fulfilling the contractual obligations by a state of force majeure lasting to a period of 6 months or more the two parties shall mutually decide regarding the future execution of this agreement.

9.0 ACCIDENTS:

The Vendor shall immediately on occurrence of any accident at or about the site or in connection with the execution of the work report such accident to SBI. The Vendor should also report immediately to the competent authority whenever such report is required to be lodged by the law and take appropriate actions thereof.

10.0 INSURANCE

The Bidder shall be responsible and take an Insurance Policy for transit-cum-storage-cum- erection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing and commissioning. The bidder shall also take appropriate insurance during O&M period.

The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and covering the risks of damage to the third-party/material/ equipment/ properties during execution of the Contract. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.

11.0 OTHER CONDITIONS:

The Successful bidder shall not display the photographs of the work and not take advantage through publicity of the work without written permission of SBI and owner of the Rooftop.

The Successful bidder shall not make any other use of any of the documents or information of this contract, except for the purposes of performing the contract.

The Vendor shall employ technically qualified / having appropriate skill and competent persons fully trained and adequately experienced technicians, who are medically fit. They should be free from any contagious diseases. They shall be well mannered and properly dressed with shoes etc.

The Vendor shall provide necessary training on safety measures while executing the work wherever necessary to avoid accident. The Bank shall not be responsible for any accident that occurred or damage incurred or claims arising there during the execution of work. The Vendor should also provide all risk insurance policies including third party insurance as maybe necessary to cover the risk.

The Vendor / firm shall be held responsible for any misdeeds/misbehavior of their employees within the premises. Bank is not responsible for any damage or claims on account of the misbehavior / misdeeds of his employees.

The Vendor shall at the request of the Bank immediately disengage from works any person employed there on by him, who in the opinion of the Bank misbehave or is incompetent. Such discharges shall not be the basis of any claim for compensation or damages against the Bank or any of their officer or employee.

No employee of the Bank is allowed to act as vendor or work as an employee of Vendor for a period of 2 years of his/her retirement from Bank Services without previous permission of the Bank. This contract is liable to be cancelled, if either the Vendor or any of his employees is any time to be such a person who has not obtained the permission of Bank as aforesaid before submission of the tender or engagement in the Vendor's service.

The Vendor shall not employ person who is not an Indian National.

12.0 VENDOR'S/ CONTRACTOR'S RESPONSIBILITIES DURING WARRANTY PERIOD OF 5 YEARS:

During the warranty period, Vendor will have to undertake comprehensive support of the entire Solar Power system including all the components (herein after referred as "System") supplied by them at no additional cost to the Bank.

Warranty shall include, among other things, periodic maintenance of the system when required or in the event of system breakdown/malfunctioning or desired performance was not achieved etc.

Vendor shall maintain the system to comply with satisfactory performances and Vendor shall be responsible for all costs relating to labour, spares, maintenance (preventive and corrective) and transport charges from and to the site(s) in connection with the repair/ replacement of the system (hardware/ equipment or any component/ part there under), which, under normal and proper use and maintenance thereof, proves defective in design, material or workmanship or fails to conform to the specifications, as specified.

Vendor shall ensure that services of professionally qualified personnel are available for providing comprehensive on-site maintenance of the system

In case of failure of system or any of its components, Vendor shall ensure that system is made operational to the full satisfaction of the Bank within the given timelines.

Vendor shall provide preventive maintenance schedules as per periodicity.

Vendor warrants Products against defect arising out of faulty design, materials, etc.. Vendor shall repair or replace worn out or defective parts including all plastic parts of the Equipment at his own cost including the cost of transport.

In the event of failure of support from OEM or OEM shutting down their operations, discontinuation of product etc the Vendor shall take responsibility to source the Solar modules, PCBs, spares, components and parts etc from the market or equivalent makes and make all arrangements to restore the system to its full functionality

Escalation matrix with the name, designation and contact details of the Vendor's Service team shall be submitted to the Bank/Branch/Site. Updated escalation matrix shall be made available to the Bank, each time the technicians or service managers change.

The Vendor has to clean the Solar panels as and when required to maintain the minimum CUF efficiency levels.

For evaluating satisfactory performance of the Solar system, the Vendor has to maintain CUF at minimum 15% during the entire warranty period of 5 years.

12.1 SCOPE OF MAINTENANCE DURING DEFECT LIABILITY PERIOD OR WARRANTY PERIOD

The Vendor shall maintain the plant and associated equipment free of cost and ensure that it works as per tender parameters.

All spares required for normal operation as per tendered parameters shall be replaced at no extra cost.

The number of visits shall be same as stipulated in Comprehensive Annual Maintenance.

The Vendor shall maintain the plant and associated equipment for a period of Five years and ensure that it works as per the tendered parameters.

The rate of annual maintenance charges shall be nil for a period of 5 years of warranty/defect liability period and the rates quoted shall be binding on the Vendor.

12.2 SCOPE OF MAINTAINANCE FOR SOLAR ROOF TOP POWER SYSTEM DURING THE WARRANTY PERIOD

The Vendor shall offer the following at no extra cost to the bank. The rate quoted in tender should include the following.

The vendor shall maintain the plant and ensure that it works as per the tendered parameters.

All the repairs and replacements of spares shall be carried out which are necessitated due to usage of system as per tender stipulations. However, the repairs and replacements necessitated by loss or damage due to misuse or accident fire or natural calamities shall be out of the scope of warranty.

The Vendor should visit quarterly for preventive maintenance of the system. If there is any breakdown calls for emergency service, the same shall be attended within 24 hrs. One of the scheduled preventive maintenances shall also be completed during such visits. Visits also shall be made to ensure at no point of time the plant capacity is less than 90%.

During the warranty, the contract includes servicing including PV panel cleaning, repairing, maintenance and replacement of spare parts

Solar Power System for the satisfactory running of the system. During each visit the supplier shall carry out Thermo- graphic checks during the warranty period to identify hot spots of PV modules and take corrective action. The same shall be recorded in a logbook which shall be verified and confirmed by bank's representative.

During the breakdown calls, the nature of repair carried out, parts replaced etc shall be recorded in the logbook.

12.3 OTHER TERMS WITH REGARD TO WARRANTY:

The security deposit kept with the Bank will forfeit if satisfactory service is not provided during the warranty period.

The scope and terms of warranty) like number of quarterly visits, items covering under warranty, replacement of spare exclusions if any, down time for breakdown and service calls shall be as mentioned above. No extra charge for maintenance shall be entertained during the warranty period.

UNDERTAKING IN LETTER HEAD TO BE SUBMITTED BY THE BIDDER

(Bidder to take a print out in bidder's letter head, sign, stamp, scan and upload in the e-tender portal)

Ref No:

Date:

To
The Assistant General Manager (P&E),
SBI, 3rd Floor, P&E Dept.,
SBI Local Head Office, Opp. Assam Sachivalaya
Guwahati – 781006

Dear Sir,

Sub: Design, manufacture, supply, erection, testing and commissioning including 5 years warranty of grid connected roof-top solar photovoltaic power system with net metering for branches under Guwahati circle.

I/We have examined the above tender and subsequent pre-bid clarifications/ modifications / revisions, if any, furnished by M/s SBI and I/We have inspected the site of works and have made me/us fully acquainted with the local conditions in and around the sites of works and offer to undertake Contract as detailed in this tender by submitting my/our online bids in the Bank's e-tender portal.

1. While submitting this Bid, I/We certify that:

i) I/We are entitled to act on behalf of our company/ organization and empowered to sign this document as well as such other documents, which may be required in this connection. The undersigned is authorized to sign on behalf of the Bidder and the necessary support document delegating this authority is uploaded along with the bid.

ii) We certify that we have not made any changes in the contents of the tender document read with its amendments/clarifications provided by M/s SBI, submitted by us in our Bid document.

2. The rate quoted by us in the online tender portal are as per the detailed scope of work and other requirements mentioned in this tender and subsequent pre-Bid clarifications/ modifications/ revisions furnished by the Bank, without any exception.

3. We have read the provisions of Tender and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our response shall not be given effect to. We agree to abide by all the Bid terms and conditions, contents of Agreement and the rates quoted in the bid, which shall remain binding upon us.

4. If our Bid is accepted, we undertake to enter into and execute at our cost, when called upon by the Bank to do so, a contract in the prescribed form and we shall be jointly and severally responsible for the due performance of the contract.

5. We agree to unconditionally accept all the terms and conditions set out in the Tender document and also agree to abide by this Bid response for a period as mentioned in the Tender from the date fixed for bid opening and it shall remain binding upon us with full force and virtue, until within this period a formal contract is prepared and executed, this Bid response, together with your written acceptance thereof in your notification of Tender, shall constitute a binding contract between us and Bank.

6. We affirm that the information contained in the Technical Bid or any part thereof, including its schedules, and other documents, etc., delivered or to be delivered to Bank is true, accurate, and complete. This proposal includes all information necessary to ensure that the statements therein do not in whole or in part mislead Bank as to any material fact. We also accept that in the event of any information / data / particulars proving to be incorrect, M/s SBI will have the right to disqualify us from the Bid.

7. We understand that you are not bound to accept the lowest or any Bid you may receive and you may reject all or any Bid without assigning any reason or giving any explanation whatsoever.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

8. We hereby undertake that our name does not appear in any "Caution" list of RBI/IBA or any other regulatory body.
9. We also confirm that we have not been blacklisted by any Bank / PSU / State or Central Govt departments for any reasons.
10. We confirm that we do not have any litigation/ cases pending against us in connection with the execution of works for any Bank / PSU / State or Central Govt departments.
11. We confirm that we are responsible to obtain all necessary licenses, permission, NOC from all the statutory/local authorities for the smooth execution of this contract in SBI premises.
12. We hereby confirm that all the materials/components/spare parts/equipment etc. to be supplied/ used as a part of this contract shall be original/new materials/components/parts/equipment only, from respective OEMs of the products and that no refurbished/ duplicate/ second hand materials/ components /parts/ equipment shall be supplied or shall be used. We also agree that you reserve the right in absolute sense to reject all or any of the products/ service specified in the bid response without assigning any reason whatsoever.
13. For any type of deviation (to any of above or subsequent instructions), it will be my/ our responsibility to obtain the written instruction of the Engineer-in-charge for the same failing which it shall be deemed that I have carried out any such deviations at my own and I shall be duty bound to replace the all deviated material/works from the site at my/ our cost as well as I shall be liable to be penalized by SBI as deemed fit.

Yours Faithfully,

Signature of the authorized person:

Name of the authorized person:

Designation/Stamp

TECHNICAL SPECIFICATIONS

The proposed project shall be commissioned as per the technical specifications given below. Any shortcomings will lead to cancelation of contract in full or part as decided by SBI & Competent Authority's decision will be final and binding on the bidder.

1.0 DEFINITION

A Grid Tied Solar Roof Top Photo Voltaic (SPV) system shall consist of following equipment/components.

- Solar PV modules consist of required number of PV modules.
- Grid interactive Power Conditioning Unit (Hybrid Inverter, MPPT, Controls & Protections)
- Hot dip GI Mounting structures.
- Junction Boxes.
- Suitable size Interconnection cables & links.
- Cable trays/UPVC Pipes for cable supports.
- Earthing and lightening protections.
- Remote Data Monitoring System through SIM.
- IR/UV protected PVC Cables, Interconnect switches and accessories

Grid tied SPV system is without battery and should be designed with necessary features to supplement the grid power during daytime. Components and parts used in the SPV power plants including the PV modules, GI metallic structures, cables, junction box, switches, PCUs etc., should conform to the BIS or IEC or international specifications, wherever such specifications are available and applicable.

2.0 PLANNING AND DESIGNING:

1. The bidder should carry out Shadow Analysis & wind load calculation at the site and accordingly design strings & arrays layout considering optimal usage of space, material and labor. The bidder should submit the array layout drawings along with Shadow Analysis Report to SBI for approval.
2. SBI reserves the right to modify the landscaping design, Layout and specification of sub-systems and components at any stage as per Local site conditions/requirements
3. The bidder shall submit preliminary drawing for formal approval of the Bank to proceed with the work, subject to modification or recommendation, if any..

3.0 DRAWINGS TO BE FURNISHED BY BIDDER AFTER AWARD OF CONTRACT

Apart from Shadow analysis & wind load calculation report, bidder must submit following drawings:

- i General arrangement and dimensioned layout
- ii Schematic drawing showing the requirement of SV panel, Power conditioning Unit(s)/ inverter, Junction Boxes, AC and DC Distribution Boards, meters etc.
- iii Structural drawing along with foundation details for the structure.
- iv Layout of solar Power Array

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

V Single line diagram related to electrical infrastructure including wiring of existing campus for CEA approval (wherever required)

On approval of the General Arrangement drawings bidder shall be responsible for submission two sets of Engineering, electrical drawings and Installation and O&M manuals, technical data sheets for each equipment giving details of the specifications along with makes

4.0 SOLAR PHOTO VOLTAIC MODULES:

- (i) The PV cell and modules used should be made in India confirming latest **ALMM-II (category A)** list of MNRE Govt. of India.
- (ii) The total solar PV array capacity should not be less than allocated capacity (Wp). The PV module/panel must Be bifacial and comprised of **N-type monocrystalline G12R TOPCon cells having average efficiency 24% and above. of minimum 685 Wp and above wattage**. Module capacity less than minimum 685-watt peak will not be accepted.
- (iii) Protective devices against surges at the PV module shall be provided.
- (iv) Low voltage drop bypass diodes shall be provided.
- (v) PV modules must be tested and approved by one of the IEC authorized test centers.
- (vi) The module frame shall be made of corrosion resistant materials, preferably having anodized aluminum.
- (vii) The bidder shall carefully design & accommodate requisite numbers of the modules to achieve the rated power in his bid. Bank shall allow only minor changes at the time of execution.
- (viii) Other general requirement for the PV modules and sub-systems shall be the Following:
 - a) The peak-power point voltage and the peak- power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2 (two) percent from the respective arithmetic means for all modules and/or for all module strings.
 - b) The module shall be provided with a junction box with either provision of external screw terminal connection or sealed type and with arrangement for provision of by-pass diode. The box shall have hinged, weatherproof lid with captive screws and cable gland entry points or maybe of sealed type and IP-65 rated.

SOLAR PV MODULE – TECHNICAL SPECIFICATION		
Sr. No.	Parameter	Technical Requirement
a	Module Type	N-type monocrystalline G12R TOPCon Solar Panels
b	Manufacturer	Waaree Energies, Waaree, Vikram, Renewsys, Mundra solar and any other ALMM -II manufacturer approved in Class A of MNRE.
c	Country of Origin	Made in India
e	Module Power Rating at STC	≥ 685 Wp
f	Module Efficiency	≥ 24% or as per the approved datasheet
h	Cell Technology	High-efficiency N-type/TOPCon or equivalent technology, as applicable.
i	Module Configuration	As per manufacturer's standard configuration for the approved module
j	Module Frame	Anodized Aluminium frame
k	Front Glass	High-transmission, tempered, anti-reflective solar glass, thickness as per OEM-approved design

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

l	Junction Box	UV-resistant junction box, minimum IP68 or as per OEM-approved design
m	Connector	Compatible, UV-resistant, weatherproof PV connector, minimum IP68
n	Module Weight	As per approved model datasheet
o	Operating Temperature	As per manufacturer's datasheet
p	Maximum System Voltage	As per approved module datasheet, typically 1500 V DC where applicable
q	Salt Mist Protection	Compliance with IEC 61701, applicable severity level as per project location
r	PID Resistance	Module shall have demonstrated PID resistance, supported by OEM/test certificate where applicable
s	Power Degradation Warranty	Minimum 90% of nominal power at 12 years and 80% at 25 years, or better as offered by OEM
t	Product Warranty	Minimum as per OEM's standard warranty for the approved module model
u	Identification Tag	Permanent identification label shall be provided on each module and shall remain legible throughout the module's service life
v	Identification Details	Manufacturer name/logo, month & year of manufacture, model number, unique module serial number, electrical ratings and applicable certification details
w	Flash Test / I-V Data	Module flash-test/I-V data shall be provided. Serial-number-wise traceability shall be maintained for supplied modules.
x	Design Qualification	IEC 61215 / applicable latest edition
y	Safety Qualification	IEC 61730 Part 1 & Part 2 / applicable latest edition
z	BIS Certification	Valid BIS certification for applicable standards shall be submitted
aa	Test Reports	Type-test certificates/reports from NABL-accredited or other applicable accredited laboratories shall be submitted wherever required
ab	ALMM	Module/model shall comply with applicable MNRE ALMM-II requirements, wherever applicable to the project
ac	Factory Inspection	The Bank/Employer reserves the right to inspect the manufacturing facility for verification of manufacturing capability, quality control, traceability and declared local content.

other specification of solar panel:

Cell Type	N-type monocrystalline G12R TOPCon cells
Module power	685Wp and above
Module efficiency	24% and above
Bifaciality	80% and above
Cell Configuration	Half-cut
Wafer Size	G12R
Operating Voltage	40-42 Volt
Open Circuit Voltage	48-50 Volt
Operating Current	14-18A
Short Circuit current	16-19A
Temp Coefficient	-0.26 to -0.30% per deg. Celsius

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

Max. system voltage	1500V DC
Module frame	Frameless/non-corrosive and electrolytically compatible with the mounting structure material
Connector	MC4-compatible
Termination box	Thermo-plastic, IP68, UV resistant
Blocking diodes	Schottky type
Module minimum rated power	ThenominalpowerofasinglePVmoduleshallnotbelessthan330Wp.
Power output rating	To be given for standard test conditions (STC). I-V curve of the sample module shall be submitted.
Rated o/p power tolerance	+/-3%
Rated for wind loads	Up to 2,400 Pa
Operating temperature	-40°C to 85°C

5.0 IDENTIFICATION AND TRACEABILITY

Modules deployed must use a RF identification tag. The following information must be mentioned in the RFID used on each module (This can be inside or outside the laminate but must be able to withstand harsh environmental conditions).

- 1) Name of the manufacturer of the PV module
- 2) Name of the manufacturer of Solar Cells.
- 3) Month & year of the manufacture (separate for solar cells and modules)
- 4) Country of origin (separately for solar cells and module)
- 5) I-V curve for the module Wattage, I_m , V_m and FF for the module
- 6) Unique Serial No and Model No of the module
- 7) Date and year of obtaining IEC PV module qualification certificate.
- 8) Name of the test lab issuing IEC certificate.
- 9) Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO14001

6.0 ARRAY/MOUNTING STRUCTURE

- a) Hot dip galvanized Iron mounting structures may be used for mounting the modules/panels /arrays. Each structure should have angle of inclination as per the site conditions to take maximum insolation. However, to accommodate more capacity the angle inclination may be reduced until the plant meets the specified performance ratio requirements.
- b) The minimum clearance of the structure from the roof level should be 450 mm (bottom of Panel) and 600mm (Top of Panel). The clearance between the rows of the Solar panels shall not be less than 450mm to facilitate the maintenance and cleaning of the panels.
- c) The Mounting structure shall be so that it should be designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. Suitable Solid Cement Concrete Blocks arrangements should be provided to secure the installation in the terrace. We will not allow grouting to the terrace.
- d) Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. Necessary protection towards rusting need to be provided either by coating or anodization.
- e) The fasteners used should be made up of stainless steel. The structures shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels
- f) Regarding civil structures the bidder need to take care of the load bearing capacity of the roof and need arrange suitable structures based on the quality of roof.
- g) The total load of the structure (when installed with PV modules) on the terrace should be less than 60 kg/m².
- h) Use SS bolts and couplers for jointing of array and fixing the modules on the array
- i) In case of Assam type roof (metal sheet roof) mounting structure should be in accordance with the roof considering all above-mentioned factors and maximum availability of sun.

SOLAR PV MOUNTING STRUCTURE (MMS) – TECHNICAL SPECIFICATION		
Sr. No.	Parameter	Technical Requirement
1	Scope	Design, engineering, supply, fabrication, hot-dip galvanizing/anodizing, transportation, installation, erection, testing and commissioning of complete PV module mounting structure including all accessories, fasteners, clamps, brackets, foundations/anchors and earthing/bonding provisions.
2	Structure Type	Fixed-tilt metallic PV module mounting structure suitable for the proposed module layout and site conditions.
3	Application	Rooftop / Tin-shed / Metal-roof / RCC-roof / Ground-mounted application as applicable to the project.
4	Primary Structure – Steel	Hot-dip galvanized steel structure using C-channel / suitable cold-formed structural sections designed by the structural engineer.
5	Steel Grade	Structural steel shall comply with applicable IS 2062 grade/approved equivalent. Cold-formed sections shall comply with applicable Indian Standards and approved design calculations.
6	Aluminium Option – Tin Shed	For tin/metal-sheet roof applications, aluminium mounting structure may be used where specified. Aluminium alloy shall be suitable for structural application, such as AA 6063-T6 or approved equivalent.
7	Galvanizing	All steel MMS components exposed to atmosphere shall be hot-dip galvanized after fabrication, unless otherwise specifically approved.
8	Galvanizing Standard	Hot-dip galvanizing shall comply with IS 4759 and applicable latest edition/amendments. Zinc bath purity and coating quality shall comply with the applicable standard.
9	Galvanization Thickness	Minimum coating thickness shall be as required by IS 4759 and the structural design/environmental exposure. For tender purposes, bidder shall state guaranteed average coating thickness in microns.
10	Corrosion Protection – Aluminium	Aluminium components shall be corrosion resistant and, where required, anodized/coated as per approved design and environment.
11	Wind Load Design	Structure shall be designed for the site-specific wind speed and wind pressure in accordance with IS 875 Part 3:2015 and applicable amendments. Design shall consider terrain, height, topography, building/roof geometry, tilt angle and edge/corner effects.
12	Minimum Wind Requirement	The structure shall withstand the governing design wind speed for the project location. A fixed minimum wind speed such as 150 km/h may be specified by the Employer where required; final design shall be based on site-specific code calculations.
13	Structural Design Code – Steel	Steel members and connections shall be designed in accordance with IS 800 and applicable structural design standards.
14	Cold-Formed Sections	Where cold-formed C/Z sections are used, design shall comply with applicable provisions of IS 801/IS 811 or latest applicable standards.
15	Dead Load	Design shall account for self-weight of modules, MMS, cables, accessories, clamps and all permanently attached components.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

16	Live / Maintenance Load	Applicable maintenance/imposed loads shall be considered in accordance with the relevant structural design codes and project requirements.
17	Snow Load	Snow load shall be considered wherever applicable based on-site location and IS 875 requirements.
18	Wind Uplift	Wind uplift, downward pressure, lateral load, torsion and critical edge/corner loading conditions shall be included in the structural analysis.
19	Load Combinations	Design shall consider applicable ultimate and serviceability load combinations in accordance with IS 800, IS 875 and relevant structural design practice.
20	Structural Analysis	Complete structural analysis shall be carried out using an appropriate engineering software/model. Structural calculations shall be signed/sealed by a qualified structural engineer.
21	Deflection / Serviceability	Member deflection and serviceability shall remain within applicable code limits and shall not cause damage to modules, roof sheets, fasteners or waterproofing.
22	Module Compatibility	Structure shall be fully compatible with the approved PV module dimensions, frame thickness, clamp zones, weight and mounting configuration.
23	Module Clamps	End clamps and mid clamps shall be aluminium or approved equivalent, UV/weather resistant and compatible with the module frame.
24	Fasteners	All module clamps and structural fasteners shall preferably be SS 304 stainless steel or hot-dip galvanized fasteners as approved. Fasteners shall be suitable for the environmental exposure and mechanically compatible with adjoining metals.
25	Electrolytic Compatibility	Materials in contact with each other shall be electrolytically compatible to minimize galvanic corrosion. Suitable isolating washers/coatings shall be provided where required.
26	Roof Fixing – Tin Shed	Fixing arrangement shall be engineered for the sheet/truss profile. Self-drilling screws, clamps, brackets or other approved fixing systems shall be selected based on structural capacity and waterproofing requirements.
27	Roof Penetration	Roof penetration shall be avoided wherever practical. Where penetration is unavoidable, approved waterproofing/sealing treatment shall be provided and tested.
28	RCC Roof Fixing	RCC roof systems shall use approved chemical/mechanical anchors or ballast systems as per structural design. Waterproofing integrity shall be maintained.
29	Foundation – Ground Mount	Ground-mounted MMS foundation shall be designed based on soil investigation/soil parameters, uplift, overturning, lateral loads and applicable structural/geotechnical requirements.
30	Tilt Angle	Tilt angle shall be optimized according to project location, energy yield, roof geometry, wind loading and shading considerations.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

31	Azimuth / Orientation	Array orientation shall be as per approved engineering design to maximize energy yield while considering roof/site constraints.
32	Inter-row Spacing	Row spacing shall be designed to minimize inter-row shading and provide adequate access for cleaning and maintenance.
33	Module Clearance	Adequate clearance shall be maintained below/around modules for ventilation, drainage, cable routing and maintenance.
34	Drainage	MMS layout shall not obstruct roof drainage paths. Water stagnation around supports shall be avoided.
35	Walkway	Adequate maintenance walkway/access shall be provided where required by project layout and safety requirements.
36	Cable Management	UV-resistant cable clips/ties/trays and proper cable routing provisions shall be provided. Cables shall not rest directly on sharp structural edges or roof sheets.
37	Earthing / Bonding	All metallic MMS sections shall be electrically bonded and connected to the PV plant earthing system as per applicable electrical design and safety requirements.
38	Module Earthing	Module frames shall be bonded/grounded using approved grounding clips, lugs or bonding jumpers compatible with the module and MMS.
39	Sharp Edges	All cut edges, burrs and sharp projections shall be removed. Galvanized areas damaged during fabrication/erection shall be repaired using an approved zinc-rich repair system.
40	Fabrication	Fabrication, drilling, punching, welding and assembly shall follow approved fabrication drawings and applicable workmanship standards.
41	Welding	Welding shall comply with applicable standards and approved WPS/workmanship requirements. Galvanizing shall preferably be performed after fabrication to ensure complete corrosion protection.
42	Manufacturing Tolerance	Fabricated members shall conform to approved drawings and applicable dimensional tolerances. Site modifications shall require engineering approval where structural integrity is affected.
43	Quality Control	Manufacturer shall maintain inspection records for raw materials, dimensions, welding, galvanization, coating thickness, fasteners and final assembly.
44	Material Test Certificates	Mill test certificates/material certificates shall be submitted for structural steel/aluminium and other major structural materials.
45	Galvanizing Test	Galvanization thickness shall be verified using calibrated coating-thickness equipment and inspection records shall be submitted.
46	Fastener Certificates	Fastener grade/material certificates shall be provided for critical structural and module fastening hardware.
47	Design Documents	Supplier shall submit GA drawings, detailed fabrication drawings, connection details, structural calculations, foundation drawings and installation drawings for approval.
48	As-Built Drawings	Updated as-built MMS drawings/layouts shall be submitted after completion, including any approved site modifications.
49	Wind Load Calculation Report	Site-specific wind load calculation report based on IS 875 Part 3 shall be submitted for approval before fabrication.

50	Structural Engineer Certification	Structural adequacy certificate shall be issued/signed by a qualified structural engineer responsible for the design.
51	Service Life	MMS shall be designed for the project life and environmental exposure, with corrosion protection suitable for the site. Target design life should preferably be 25 years or more.
52	Environmental Conditions	Structure shall be suitable for the site's temperature, humidity, rain, dust, UV exposure, corrosive atmosphere and other environmental conditions.
53	Coastal / High Corrosion Sites	For coastal or high-corrosion environments, additional corrosion protection, suitable galvanizing/coating, stainless-steel hardware and/or aluminium construction shall be considered based on site exposure.
54	Installation	Installation shall be carried out strictly as per approved drawings and OEM/module manufacturer clamp-zone requirements.
55	Torque Control	All critical bolts shall be tightened to manufacturer's specified torque. Torque records shall be maintained where required.
56	Inspection Before Handover	Final inspection shall verify alignment, tilt, bolt torque, clamps, galvanization, roof integrity, bonding, cable clearance and workmanship.
57	Warranty	Minimum structural workmanship/material warranty shall be 5 years or as specified in the project contract. Any longer OEM/EPC warranty shall be clearly stated.
58	Documents at Handover	Submit approved drawings, structural calculations, material certificates, galvanization reports, inspection reports, torque records, warranty certificates and as-built drawings.
59	Compliance	MMS shall comply with applicable MNRE/utility/project specifications, BIS standards and approved engineering drawings.
60	Employer Inspection Rights	Employer/Bank reserves the right to inspect manufacturing facilities, raw materials, fabrication, galvanization and finished MMS before dispatch.

7.0 ARRAY JUNCTION BOXES (AJBs)

- a) The array junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of FRP/Powder Coated Aluminum. All wires / cables must be terminated through cable lugs. The JB's shall be such that input & output termination can be made through suitable weatherproof cable glands.
- b) Copper bus bars/terminal blocks housed in the junction box with suitable termination threads conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry.
- c) Each Junction Box shall have High Quality Suitable Capacity Metal Oxide Varistors (MOVs) / SPDs, suitable Reverse Blocking Diodes. The Junction Boxes shall have suitable arrangement, monitoring and disconnecting for each of the groups.
- d) Suitable markings shall be provided on the busbar for easy identification, and the cable ferrules must be fitted at the cable termination points for identification.

8.0 DC DISTRIBUTION BOARD:

DC DBs shall have sheets from enclosure of dust & vermin proof conform to IP65 protection and compatible for MC4 connectors. The bus bars are made of copper of desired size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the PCU along with necessary surge arrestors (DC surge protection device (SPD), class 2 as per IEC 60364-5-53). If a DC isolator is used instead of a DC circuit breaker, a DC fuse shall be installed inside the DC Distribution Box to protect the DC cable that runs from the DC Distribution Box to the Solar Grid Inverter.

9.0 AC DISTRIBUTION PANEL BOARD:

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

1. AC Distribution Panel Board (DPB) shall have necessary surge arrestors. Interconnection from ACDB to mains at LT Busbar while in grid tied mode.
2. All the termination works related to changeover switches; cabling work should be undertaken by the bidder as part of the project.
3. All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air -insulated, cubical type suitable for operation on three phase / single phase, 415 or 230 volts, 50Hz.
4. The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
5. All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better.
6. Should conform to Indian Electricity Act and rules (till last amendment).
7. All the 415 V AC or 230 volts' devices /equipment like bus support insulators, circuit breakers, SPDs, VTs etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.

Variation in supply voltage	+/-10%
Variation in supply frequency	+/-3Hz

10.0 PCU/ARRAY SIZE RATIO:

- a) The combined wage of all inverters should not be less than rated capacity of power plant under STC.
- b) Maximum power point tracker shall be integrated into the PCU/inverter to maximize energy drawn from the array.

11.0 PCU/Inverter (Hybrid type):

The PCU including MPPT (Maximum Power Point Tracker), an interface between Solar PV array & the Inverter, to the power conditioning unit / inverter should also be DG set interactive. If necessary, Inverter output should be compatible with the grid frequency. Typical technical features of the inverter shall be as follows:

3-Phase Hybrid Inverter – Technical Specification		
S. No.	Parameter	Minimum / Required Specification
1	Application	Hybrid Solar PV + Battery Energy Storage + Grid/DG integration
2	Topology	Three-phase, four-wire hybrid inverter
3	Rated AC Input/Output Active Power (W)	As per the capacity of solar plant
4	Max. AC Input/Output Apparent Power (VA)	As per the capacity of solar plant
5	Rated AC Input/Output Current (A)	As per inverter capacity
6	AC Output Voltage	415 V AC, 3-phase,
7	Nominal Frequency	50 Hz
8	Output Voltage Tolerance	±2% or better
9	Output Waveform	Pure sine wave
10	Power Factor	≥ 0.99 at rated load; adjustable, preferably 0.8 leading to 0.8 lagging
11	Maximum Efficiency	≥ 97%
12	MPPT Efficiency	≥ 99%
13	PV Input	Compatible with high-voltage PV strings
14	Maximum PV Input Power	as recommended by manufacturer

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

15	MPPT Trackers	Minimum 2 independent MPPTs
16	MPPT Voltage Range	Suitable for proposed PV module/string configuration; typically around 150–850 V DC
17	Maximum PV Input Voltage	≥ 1,000 V DC
18	Maximum PV Input Current	As required for proposed PV array, with adequate margin
19	Compatible Battery Type	Lithium-ion / LiFePO ₄ or other approved rechargeable battery technology
20	Battery Voltage	Compatible with proposed BESS; preferably high-voltage battery system
21	Battery Charging	Solar and grid charging capability
22	Battery Discharging	Automatic/manual programmable discharge
23	Battery Management	CAN/RS485 communication with compatible BMS
24	Operating Modes	Grid-tied, Off-grid/Backup, Self-consumption, Battery priority, PV priority, Zero-export and Peak-shaving
25	Grid Charging	Required
26	DG Compatibility	Compatible with diesel generator input
27	Zero Export	Default/Settable
28	Peak Shaving	Required
29	Time-of-Use (TOU)	Programmable charging/discharging schedule preferred
30	Backup Output	Capable of supplying designated critical loads during grid failure
31	Transfer Time	≤20 ms preferred for critical-load applications
32	Parallel Operation	Parallel operation capability preferred for system expansion
33	Communication	RS485, CAN and/or Ethernet, SIM compatible
34	Protocols	Modbus RTU/TCP or equivalent open communication protocol
35	Remote Monitoring	Web/cloud/app-based monitoring preferred
36	Display	Local LCD/LED/HMI showing PV, grid, battery, load and alarm parameters
37	Protection – DC	DC over-voltage, over-current, reverse-polarity and insulation protection
38	Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level
39	Earth Fault Protection	Required
40	Over-temperature Protection	Required
41	Cooling	Intelligent Air Cooling
42	Ingress Protection	Minimum IP65 for outdoor installation preferred
43	Operating Temperature	-40 to +60 C, >45C Derating
44	Relative Humidity	5–95%, non-condensing
45	Altitude	Suitable for site altitude; derating, if applicable, to be specified
46	Installation	Wall/floor mounted as applicable
47	Compliance	Applicable IEC/BIS standards and Indian grid interconnection requirements
48	Warranty	Minimum 5 years preferred

- i. PCU/inverter (hybrid) shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- ii. The output of power factor of PCU inverter is suitable for all voltage ranges or sink of reactive power, inverter should have internal protection arrangement against any sustainable fault in feeder line and against the lightning on feeder.

12.0 DATA ACQUISITION SYSTEM / PLANT MONITORING

1. Built-in meter and data logger to monitor plant performance through external computer (IoT) shall be provided for each of the solar PV plants.
2. Electrical Energy: Digital Energy Meters to log the actual value of AC/DC voltage, Current & Energy generated by the PV system provided. The following parameters are accessible via the operating interface display in real time separately for solar power plant:
 - i. AC Output current.
 - ii. AC Voltage.
 - iii. Output Power
 - iv. Power factor.
 - v. DC Input Voltage.
 - vi. DC Input Current.
 - vii. Time Active.
 - viii. Time disabled.
 - ix. Time Idle.
 - x. Power produced and feed-in
- xi. Protective function limits (Viz-AC Overvoltage, AC Under voltage, over frequency, under frequency ground fault, PV starting voltage, PV stopping voltage).
3. All instantaneous data shall be shown on the computer screen. Software shall be provided for USB/ internet download and analysis of DC and AC parametric data for individual plants.
4. Remote Monitoring and data acquisition through Remote Monitoring System software at the owner / SBI location with latest software/hardware configuration and service connectivity for online (suitable active SIM with data connection for 5 year validity to be supplied by the vendor) / real time data monitoring/control complete to be supplied and operation and maintenance/control to be assured by the supplier. Provision for interfacing these data on SBI server and portal in future shall be kept.

13.0 CABLES

Cables of appropriate size to be used in the system shall have the following characteristics:

- i Temp. Range: -10°C to + 80°C.
- ii Voltage rating: 1100V grade
- iii Flexible and excellent resistance to fire (FRLS), heat, cold, water, oil, abrasion, UV radiation.
- iv Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be selected to keep the voltage drop (power loss) of the entire solar system to the minimum. The cables (as per IS) should be insulated with a special grade PVC compound formulated for outdoor use.
- v Cable Routing/Marking: All cable/wires are to be routed in a GI cable tray and suitably tagged and marked with proper manner by good quality ferrule or by other means so that the cable easily identified.
- vi The Cable should be so selected that it should be compatible up to the life of the solar PV panels
i.e. 25 years.
- vii Multi Strand, annealed high conductivity copper conductor PVC type 'A' pressure extruded insulation or XLPE insulation. Overall PVC/XLPE insulation for UV protection Armored cable for underground laying. All cable trays including covers to be provided. All cables conform to latest edition of IEC/equivalent BIS Standards as specified elsewhere in this document.

viii. The size of each type of DC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 1%.

ix) The size of each type of AC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 2%.

15.0 METERING:

1. The bidirectional electronic energy meter (class shall be as per the TANGEDCO norms) shall be installed for the measurement of import/Export of energy.
2. The bidder must take approval/NOC from the Concerned DISCOM for the connectivity, technical feasibility, and synchronization of SPV plant with distribution network and submit the same to SBI before commissioning of SPV plant.
3. Reverse power relay shall be provided by bidder (if necessary), as per the local DISCOM requirement.

16.0 INTEGRATION OF PV POWER WITH GRID:

The output power from the inverters feeds it into the main electricity grid after synchronization. In case of grid failure, or low or high voltage, solar PV system shall be out of synchronization and shall be disconnected from the grid. 4 pole isolation of inverter output with respect to the grid/ DG power connection need to be provided.

For buildings or loads with diesel generator backup, the wiring of the solar grid inverter shall be such that the solar grid inverter cannot run in parallel with the diesel generator. This implies that the solar grid inverter must be connected to a distribution board on the grid side of the automatic or manual change- over switch as shown in typical wiring diagram.

Metering and grid connectivity of the roof top solar PV system under this scheme would be the responsibility of the Bidder in accordance with the prevailing guidelines of the concerned DISCOM and /or CEA (if available by the time of implementation).

17.0 POWER CONSUMPTION:

Regarding the generated power consumption, Total power generated shall be utilized by SBI, priority shall be given for internal consumption and thereafter any excess power shall be exported to grid. Calibrated Energy meter at the feed-in point shall be installed by the successful bidder for cumulative power consumption reading. Decisions of appropriate authorities like DISCOM, state regulator may be followed.

18.0 PROTECTIONS

The system should be provided with all necessary protections like earthing, Lightning and grid islanding as follows:

LIGHTNING PROTECTION

The SPV power plants shall be provided with lightning & overvoltage protection. The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors (not to use existing lightening arrestors of the building). one number dedicated earth pit for the lightening arrestor shall be provided

Lightning protection should be provided as per IEC 62305 standard. The protection against induced high voltages shall be provided by using the metal oxide varistors (MOVs) and suitable earthing such that induced transients find an alternate route to earth.

SURGE PROTECTION

Internal surge protection shall consist of "3" MOV type effective surge-arrestors connected from +ve and -ve terminals to earth (via Y arrangement). Any damage of SBI appliances due to surge protection failure shall be the responsibility of successful bidder.

EARTHING PROTECTION

Each array structure of the PV yard should be grounded/earthed properly as per IS: 3043- 1987. In addition, the lightning arrester/mast should also be earthed inside the array field. Earth Resistance shall be tested in presence of the representative of SBI as and when required after earthing by calibrated earth tester. PCU, ACDB and DCDB should also be double earthed properly.

Earth resistance shall not be more than 1 ohm. It shall be ensured that all the earthing points are bonded together (interlinked) to make them at the same potential.

2 nos of Copper Earth strip of 25X3mm shall be used for the earthing connection to the Earth pit. 2nos Earth pits shall be provided for the earthing of the Solar panels and one earth pit for the structure.

GRID ISLANDING PROTECTION

In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands."

The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.

A manual disconnect 4pole isolation switch beside automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. This switch shall be locked by the utility personnel.

19.0 DANGER BOARDS AND SIGNAGES:

Danger boards should be provided as and where necessary as per IE Act. /IE rules as amended up to date. Three signage shall be provided, one each at solar array area, DB and Meter room. Text of the signage may be finalized in consultation with SBI/ owner.

20.0 SAFETY MEASURES:

The bidder shall take entire responsibility for electrical safety of the installation (s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

21.0 ACTION WHERE THERE IS NOSPECIFICATION

In case of any class of work for which there is no specification mentioned, the same will be carried out in accordance with the Indian Standards Specifications (IS)/ MNRE/ NISE/ BEE standards subject to the approval of the Bank

22.0 TEST CERTIFICATES AND REPORTS TO BE FURNISHED

Test Certificates / Reports from IECQ / NABL accredited laboratory for relevant IEC / equivalent BIS standard for quoted components shall be furnished. Type Test Certificates shall be provided for the solar modules and the solar grid inverter to provide evidence of compliance with standards as specified by Ministry of New and Renewable Energy (MNRE). Bank reserves the right to ask for additional test certificates or(random) tests to establish compliance with the specified standards.

23.0 CONFIRMATION TO MNRE TECHNICAL SPECIFICATIONS AND STANDARDS

The Tenderer should ensure that all components and systems used under this Scheme shall strictly adhere to the Technical Specifications and Guidelines issued by MNRE for DCR panels under ALMM-II category 'A', and as amended from time to time.

24.0 QUALITY CERTIFICATION, STANDARDS AND TESTING FOR GRID-CONNECTED ROOFTOP SOLAR PV SYSTEMS/ POWER PLANTS

All components of grid-connected rooftop solar PV system/plant must conform to the relevant standards and certifications given below:

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

Solar PV Modules/Panels	
IEC61215/IS14286	Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
IEC61646/Equivalent IS (Under Dev.)	Thin Film Terrestrial PV Modules
IEC62108	Concentrator PV Modules & Assemblies
IEC61701	Salt Mist Corrosion Testing of Photovoltaic (PV) Modules
IEC61853-Part1/IS 16170: Part1	Photovoltaic(PV) module performance testing and energy rating: Irradiance And temperature performance measurements, and power rating
IEC62716	Photovoltaic(PV) Modules–Ammonia(NH3) Corrosion Testing(As per the Site condition like dairies, toilets)
IEC61730-1,2	Photovoltaic(PV) Module Safety Qualification–Part1: Requirements for Construction, Part2: Requirements for Testing
Solar PV Inverters	
IEC62109-1,IEC 62109-2	Safety of power converters for use in photovoltaic power systems – Part 1: General requirements, and Safety of power converters for use in photovoltaic power systems Part2: Requirement for inverters. Safety compliance (Protection Degree IP65 for outdoor mounting, IP54forindoor mounting)
IEC/IS61683 (as applicable)	Photovoltaic Systems–Power conditioners: Procedure for Measuring Efficiency(10%,25%,50%,75%&90-100>LoadingConditions)
IEC62116/UL1741/ IEEE1547(as applicable)	Utility-interconnectedPhotovoltaicInverters-TestProcedureofIs-landing Prevention Measures
IEC60255-27	Measuring relays and protection equipment–Part27: Product safety requirements
IEC60068-2/IEC 62093(as applicable)	Environmental Testing of PV System–Power Conditioners and Inverters
Fuses	
IS/IEC 60947 (Part1, 2&3), EN50521	General safety requirements for connectors, switches, circuit breakers (AC/DC): a) Low-voltage Switchgear and Control-gear, Part1: General rules b) Low-Voltage Switchgear and Control-gear, Part2: Circuit Breakers c) Low-voltage switchgear and Control-gear, Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units d) EN50521: Connectors for photovoltaic systems–Safety requirements And tests
IEC60269-6	Low-voltagefuses-Part6: Supplementary requirements for fuse-links for The protection of solar photovoltaic energy systems
Surge Arrestors	
BFC17-102:2011	Lightening Protection standard
IEC60364-5-53/IS15086-5 (SPD)	Electricalinstallationsofbuildings-Part5-53: Selection and erection of Electrical equipment-Isolation, switching and control
IEC61643-11:2011	Low-voltagesurgeprotectivedevices-Part11: Surge protective devices Connected to low-voltage power systems–Requirements and test methods
Cables	

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

IEC 60227/IS 694, IEC 60502/IS 1554 (Part 1& 2) / IEC69947 (as applicable)	General test and measuring method for PVC (Polyvinyl chloride) insulated cables (for working voltages up to and including 1100 V and UV resistant for Outdoor installation)
BSEN50618	Electric cables for photo voltaic systems
(BT(DE/NOT)258)	Mainly for DC Cables
Earthing /Lightning	
IEC62561	Series(Chemical earthing) (as applicable)
IEC62561-1	Lightning protection system components(LPSC)-Part1:Requirements for Connection components
IEC62561-2	Lightning protection system components(LPSC)-Part2:Requirementsfor Conductors and earth electrodes
IEC62561-7	Lightning protection system components(LPSC)-Part7:Requirementsfor Earthing enhancing compounds
Junction Boxes	
IEC60529 IEC529	Junction boxes and solar panel terminal boxes shall be of the thermoplastic type with IP 65 protection for outdoor use, and IP 54 protection for indoor use
Solar PV Roof Mounting Structure	
IS2062/IS4759	Material for the structure mounting
IEC62548	PV arrays–Design requirements

Annexure-3

Make of Materials proposed to be supplied in this Contract from the list of preferred makes of materials (Bidder to take a printout in bidder's letter head, sign, stamp, scan and upload in the e-tender portal)

S. no	Equipment Name	Preferred Make	Bidder's offer
1	Solar Panels (DCR type)	Reputed Manufacturers of DCR panels from the updated list of MNRE, ALMM-II Category "A" (Waaree, Premier, Emmvee, Mundra Solar etc.)	
2	Grid-tie string inverters	SMA India / ABB-fimer/ Emerson/ Delta / Fronius / Growatt/Power one/ Feston	
3	Power cables	Havells/RRkabel/Polycab/KEI	
4	Control cables	Panasonic/Unistar/LAPP/Polycab	
5	LT switchgear	LK / Siemens / Schneider/ABB/ Legrand	
6	Steel members	TATA /SAIL/Jindal	
7	Earthing/ lightning arrester	Erico/Obo Bettermann India / Citel /Dehnguard / Indelec / Inmbus / Liva	
8	DCDB/ACDB	GESYS/Swalect/Mala/	
9	DC cables	Havells/KEI/Polycab	
10	String Combiner Box	Robotina/Trinity Touch/GESYS / Hensel/Cape Electric	

Note: Vendor to mention the make of materials proposed to be used from the above makes and upload the document in the e-tender portal

Annexure-4

FORMAT OF AGREEMENT

Articles of Agreement made this-----day of-----year 2026 between (Hereinafter referred to as the "Employer/Bank" which expression shall, unless excluded by or repugnant to the context, includes its successors and assigns) of the One Part and of-- (Hereinafter referred to as "Vendor" unless excluded by or repugnant to the context, includes its successors and assigns) of the Other Part.

Whereas the Employer intends to carry out----- and shall herein after referred to as "Project".

And whereas for the purpose of the above-mentioned project, the Employer invited tenders from experienced, resourceful and bonafide Vendors vide its Notice Inviting Tender (No.-----dated-----).

Whereas the Vendor submitted his Online Tender containing Notice Inviting Tender, General Conditions of Contract, Special conditions, Bill of Quantities, Form of Agreement, Preferred makes of materials, Form of Submission of tender, Technical Specifications etc. for the above said project, (Hereinafter collectively referred to as the "said conditions"), digitally signed as a token of his acceptance of the same, along with requisite Cost of tender and Earnest Money Deposit.

And whereas out of the Tenders received, the Tender of the Vendor was found to be most suitable for the project.

And whereas the Employer through M/s SBI has accordingly issued the work order (No.-----dated-----) to the Vendor subject to his furnishing the requisite Security Deposit.

And where as the Vendor has accepted the aforesaid Work Order vide his letter of acceptance No.----- dated----- and has also deposited with the Employer a sum of Rs.----- Which with the Earnest Money of Rs.-----

Forms the requisite Security Deposit@2% of the accepted Tender Value of Rs. --.

Now, therefore, it is hereby agreed to and between the parties as follows:

- 1) The following documents shall constitute the Contract Documents.
 - a) This Article of Agreement.
 - b) Tender Document submitted online by the Vendor including the N.I.T, Instructions to the Vendor, General conditions of Contract and Special conditions of Contract, technical specifications and Bill of quantities
 - c) All correspondence between the Employer and the Vendor from the date of issue of N.I.T and the date of issue of work order and corrigendum issued by the employer
 - d) Work order No.-----dt. -----
-
- 2) Time shall be considered as the essence of this agreement, and the Vendor hereby agrees to commence the work soon after the site is handed over to him or as provided for in the said conditions and complete the entire work in---- days or within the extended period approved by Bank.
- 3) In consideration of the said sum to be paid at the times and in the manner set forth in the said conditions, the Vendor shall upon and subject to the said conditions, execute and complete the project as described in the said Specifications and the said Schedule of Quantities.
- 4) Notwithstanding what are stated in the N.I.T conditions of Tendering, Conditions of Contract of herein stated before, the Employer reserves itself the right of altering the nature of the work and addition to or omitting any items of work or of having portions of same carried out through another agency or otherwise and such alterations or variations shall be carried out without prejudice to this contract.
- 5) As mentioned above, the "said conditions" shall be read and be treated as forming part of this agreement and parties hereto will respectively be bound thereby and to abide by and submit themselves to the conditions and stipulations and perform the same on their parts to be respectively observed and preferred.

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN
NE TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

- 6) The Vendor / Vendor shall promptly notify SBI of any changes in the constitution of their firm. It shall be open to SBI to terminate the agreement on the death, retirement, insanity or insolvency of any person/s is being director/s or partner/s in the said company / firm, or on the addition or introduction of a new partner without the previous approval in writing of SBI. But in absence of and until its termination by SBI as aforesaid, this agreement shall continue to be of full force and effect notwithstanding any changes in the constitution of the firm by death, retirement, insanity or insolvency of any of its partners or the addition or introduction of any new partners. In case of retirement / death, the surviving or remaining partners of the firm shall be jointly and severally liable for the due and satisfactory performance of the terms and conditions of the agreement.
- 7) The Vendor agrees and hereby keeps the Bank indemnified against all claims, actions, loss, damages, reputation loss, costs, expenses, charges, including legal expenses (Attorney, Advocates fees included) which the Bank may suffer or incur on account of any deficiency in Services rendered by The Vendor or breach of any obligations under this contract, including without limitation, breach of confidentiality obligations or any acts of commission / omission on the part of employees, agents, representatives or Sub-Vendors of the Vendor. The Vendor agrees to make good the loss suffered by the Bank.
- 8) This agreement and contract shall be deemed to have been made in Guwahati and any questions or dispute rising out of or in any way connected with this Agreement and Contract shall be deemed to have arisen in Guwahati and only the courts in Guwahati shall have jurisdiction to determine the same. The limitation period will be 90 days from the date of dispute having arisen.
- 9) Any dispute arising under this agreement shall be referred to the Arbitration in a manner specified in the General Conditions of the Contract and the decision of the arbitration shall be final and binding on both the parties
- 10) The contract may be terminated at any time by the Bank upon giving seven days notice to the Vendor.

IN WITNESS WHERE OF THE PARTIES to their

Present have here under set and subscribed their hands, the day, month and year first above written.

Signed and delivered for and on behalf of

Shri. _____ its duly authorized official, In the presence of –

1. (Name and Address)
2. (Name and Address)

Signed and delivered for and on behalf of the Vendor _by

Shri _____ his duly authorized representative, in the presence of

1. (Name and Address)
2. (Name and Address)

Annexure-5

LIST OF SITES PROPOSED FOR INSTALLATION OF SOLAR ROOF TOP POWER PROJECTS

Sl. No	Location	Address	Tentative Maximum Solar Capacity (in kWp)
1.	SBI RBO Itanagar	VIP Road, Bank Tinali, Itanagar, Arunachal Pradesh - 791111	30
2.	SBI Senapati Branch	Senapati Bazar, Senapati, Manipur-795106	20
3.	SBI Anini Branch	Anini, Dibang valley, Arunachal Pradesh-792101	15
4.	SBI Hayuliang Branch	Hayuliang, Anjaw, Arunachal Pradesh- 792104	20
5.	SBI Kolorinag Branch	Karum Kumey, Arunachal Pradesh - 791120	15
6.	RBO Dimapur (New Building)	Back side of Hotel East inn, Dimapur	15
7.	LHO Building	Dispur, LHO Guwahati	60

SITCM OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS AT BANK'S OWN BUILDINGS IN NE
TENDER ID: P&E/2026-27/Tender/112, Dt.: 27.09.2026

PRICE BID:

(To be submitted in separate sealed cover)

SUPPLY, INSTALLATION, TESTING, COMMISSIONING & MAINTENANCE (05 YRS) OF GRID CONNECTED ROOF TOP SOLAR POWER PLANTS IN BANK'S OWN BUILDINGS AT VARIOUS LOCATIONS IN NORTHEAST STATES.

Bidder should quote the rate per kWp basis taking into consideration all the activities and works covered under the scope of the contract mentioned in the tender document. Amount payable to the successful bidder(s) is based on the actual installed capacity. The rate quoted shall be firm and shall include all costs excluding GST. The rate quoted must be applicable in all seven states of northeast (Assam, Arunachal, Meghalaya, Manipur, Mizoram, Tripura and Nagaland).

Sl. No.	Short description of Work	Nam of the site	Tentative maximum capacity of roof top solar (in kWp)	Rate per kWp (excl. GST) (same rate will be applicable to all sites)	Amount (Excl. GST)
1	Supply, installation, testing, Commissioning (with net metering) and 5-year comprehensive maintenance of Grid connected roof top solar power plant in Bank's own building confirming the technical specification mentioned in NIT. Panels must be DCR and MNRE ALMM-II compliant N-type monocrystalline G12R TOPCon panels, inverter must be hybrid type with SIM based communication facility, mounting Structure must be of hot dip GI. All other details must be in line with the detailed technical specifications of tender. The work must be complete in all respect and Bank will not be liable for any item quantity misinterpreted.	SBI RBO Itanagar	30		
2		SBI Senapati Branch	20		
3		SBI Anini Branch	15		
4		SBI Hayuliang Branch (new building)	20		
5		SBI Kolorinag Branch	15		
6		RBO Dimapur (New Building)	15		
7		LHO Building	60		
	TOTAL AMOUNT (Excl. GST)				

- Note:**
1. Vendor must go through the detailed technical specifications before participating in the tender.
 2. Bank in its discretion may reduce or increase the number of site or capacity of the solar plant. Vendor must abide the changes.
 3. **A single rate per kilowatt peak must be provided by the vendor which will be applicable to all sites. No multiple rates will be allowed. Bid of the Vendor will be rejected for quoting multiple rates.**

Signature of the vendor with company seal

