



भारतीय रिज़र्व बैंक संपदा विभाग, नागपुर



Design, Supply, Installation, Testing and Commissioning (DSITC) of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in Main Office Building, Additional Office Building, Bank's ALSQ, ARSQ, TRSQ & BTOQ at Nagpur

Reserve Bank of India, Nagpur (Bank) invites open tenders by e-tender mode for “Design, Supply, Installation, Testing and Commissioning of 160 KWp Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in Main Office Building, Additional Office Building, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur. The tendering would be done through the e-Tendering portal of MSTC Ltd (<https://mstcecommerce.com/eproc>). All interested eligible contractors must register themselves with MSTC Ltd through the above-mentioned website to participate in the tendering process.

SCHEDULE OF TENDER (SOT)

Item	DSITC of 160 KWp <u>(4 Nos X 15 KWp + 2 Nos. X 50 KWp)</u> Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.
e-Tender no	RBI/Nagpur Regional Office/Estate/3/24-25/ET/339[DSITC of 160KWp SPP at RBI NGP]
Mode of Tender	e-Procurement System (Online Part I - Techno-Commercial Bid and Part II - Price Bid through www.mstcecommerce.com/eproc)
Date of NIT available to parties to Download	From 05:00 PM of August 21, 2024
Tender Fees	Rs – Nil
Pre-Bid meeting	Offline - 11:00 Hrs on September 24, 2024 Venue- Reserve Bank of India, Estate Department, Nagpur-440001.

Estimated Cost of the work	Rs. 74,19,760/-
Earnest Money Deposit	Rs. 1,48,395/- by NEFT, RBI A/c No.- 8714295, IFSC Code: RBIS0NGPA01(5th &10th digit is zero) or 1) Irrevocable Bank Guarantee
Last date of submission of EMD	Till 02:00 PM on October 08, 2024
Date of Starting of e-Tender for submission of on line Techno-Commercial Bid and price Bid at www.mstcecommerce.com/eprocn	11:00 AM of September 27, 2024
Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid	02:00 PM of October 08, 2024
Date & time of opening of Part-I (i.e. Techno-Commercial Bid) Part-II Price Bid: Date of opening of Part II i.e. price bid shall be informed Separately	03:00 PM of October 08, 2024
Transaction Fee	Payment of Transaction fee through MSTC payment gateway /NEFT/RTGS in favour of MSTC LIMITED as intimated by them.

2. The Bank is not bound to accept the lowest Tender and reserves the right to accept either in full or in part any tender. The Bank also reserves the right to reject all the tenders without assigning any reason therefor.

3. Any amendments / corrigendum to the tender, if any, issued in future will only be notified on the RBI Website and MSTC Website as given above and will not be published in the newspaper.

Regional Director
Reserve Bank of India
Nagpur



**RESERVE BANK OF INDIA
ESTATE DEPARTMENT, NAGPUR**

**DSITC OF 160 KWP (4 NOS X 15 KWP + 2 NOS. X 50 KWP) ROOF TOP GRID INTERACTIVE
SPV BASED SOLAR POWER SYSTEMS (MONO PERC) IN MAIN OFFICE BUILDING,
ADDITIONAL OFFICE BUILDING, BANK'S ATREY LAYOUT STAFF QUARTERS(ALSQ),
AMRAVATI ROAD STAFF QUARTERS(ARSQ), TELANGKHEDI ROAD STAFF
QUARTERS(TRSQ) AND BYRAMJI TOWN STAFF QUARTERS(BTOQ) AT NAGPUR.**

Part-I

Name of Tenderer: _____

Address: _____

Date & Time of Pre Bid Meeting: At 11:00 AM on September 24, 2024 at Estate Department,
Reserve Bank of India, Nagpur-440001.

Due date and time for Submission of tender: Up to 02:00 PM. on October 08, 2024,
Date & Time of opening of Part- I of tender: At 03:00 PM on October 08, 2024

**e-Tender No: RBI/Nagpur Regional Office/Estate/3/24-25/ET/339
[DSITC of 160KWp SPP at RBI NGP]**

This document is the property of Reserve Bank of India (RBI). It may not be copied, distributed or recorded on any medium, electronic or otherwise, without the RBI's written permission thereof, except for the purpose of responding to RBI for the said purpose. The use of the contents of this document, even by the authorized personnel / agencies for any purpose other than the purpose specified herein, is strictly prohibited and shall amount to copyright violation and thus, shall be punishable under the Indian Law.



**RESERVE BANK OF INDIA
ESTATE DEPARTMENT,
Nagpur**

DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in Main Office Building, Additional Office Building, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.

Reserve Bank of India, Nagpur invites open tenders by e-tender mode for "DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in Main Office Building, Additional Office Building, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.

The tendering would be done through the e-Tendering portal of MSTC Ltd (<https://mstcecommerce.com/eprocn>). All interested eligible contractors must register themselves with MSTC Ltd through the above-mentioned website to participate in the tendering process.

SCHEDULE OF TENDER (SOT)

Name of work	DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.
e-Tender no	RBI/ Nagpur Regional Office/Estate/3/24-25/ET/339[DSITC of 160KWp SPP at RBI NGP]
Mode Of Tender	e-Procurement System (Online Part I - Techno-Commercial Bid and Part II - Price Bid through www.mstcecommerce.com/eprocn)
Date of NIT available to parties to download	From 05:00 PM of August 21, 2024
Tender Fees	Rs – Nil
Pre-Bid meeting	Offline 11:00 Hrs on September 24, 2024 Venue- Reserve Bank of India,

	ESTATE DEPARTMENT, Nagpur-440001.
Estimated Cost of the work	₹. 74,19,760/-
Earnest Money Deposit	₹. 1,48,395/-by NEFT, RBI A/c No.- 8714295, IFSC Code: RBIS0NGPA01 (5 th & 10 th digit is zero) or 1) Irrevocable Bank Guarantee
Last date of submission of EMD	Till 02:00 PM on October 08, 2024
Date of Starting of e-Tender for submission of on line Techno-Commercial Bid and price Bid at www.mstcecommerce.com/eprocn	11:00 AM of September 27, 2024
Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid	02:00 PM of October 08, 2024
Date & time of opening of Part-I (i.e. Techno-Commercial Bid) Part-II Price Bid: Date of opening of Part II i.e. price bid shall be informed separately	03:00 PM of October 08, 2024
Transaction Fee	Payment of Transaction fee through MSTC payment gateway /NEFT/RTGS in favour of MSTC LIMITED as intimated by them.

2. The Bank is not bound to accept the lowest Tender and reserves the right to accept either in full or in part any tender. The Bank also reserves the right to reject all the tenders without assigning any reason therefor.

3. Any amendments / corrigendum to the tender, if any, issued in future will only be notified on the RBI Website and MSTC Website as given above and will not be published in the newspaper.

Regional Director
Reserve Bank of India
Nagpur

**RESERVE BANK OF INDIA
ESTATE DEPARTMENT,**

Notice inviting e-Tender

DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.

1. Online Tenders by **E-Tendering** process are invited for above work at Estate Department, Nagpur. The work is estimated to cost **₹.74,19,760/-** and is to be completed within **12 weeks** from 14th day of the date of issue of work order.
 2. All the Pre-Qualification papers shall be uploaded on MSTC site. Same will be downloaded after bid opening date for examination by the Bank.
 3. The Earnest Money Deposit (EMD) in the form of Irrevocable Bank Guarantee/proof paid by NEFT shall be submitted in sealed cover addressed by name to **Regional Director, ESTATE DEPARTMENT, Reserve Bank of India, Nagpur- 440001** so as to reach up to **02:00 PM on October 08, 2024** superscripted as "EMD for DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) roof top grid interactive solar power plant".
 4. Bidders will be allowed to view/download online tender from 05:00 PM of August 21, 2024. **The firms which do not comply with the following pre-qualification criteria and do not submit EMD, will not be considered for opening of their tender Part-II.**
- A.** The intending tenderer must have minimum 5 years of experience (work order on or before cut-off date) in carrying out grid interactive solar power system installation works for office buildings/commercial premises. The **similar work*** should have been completed on or before July 31, 2024.
- i. The intending tenderer must have executed successfully **similar works***, during last five years ending on July 31, 2024 as under:
 - (a) Three works each costing not less than the amount equal to 40% of the estimated cost
 - OR
 - (b) Two works each costing not less than the amount equal to 50% of the estimated cost
 - OR
 - (c) One work costing not less than the amount equal to 80% of the estimated cost.

- ii. Minimum yearly turnover of **100% of the estimated cost** during last 3 financial years supported by audited financial statements.
- iii. Should have **service setup at Nagpur** for rendering after sales service. The address proof should be uploaded along with Part I of the tender for verification.

Note:

- a. ***Similar Works means - works of Design, Supply, Installation, Testing and Commissioning of grid interactive SPV based Solar Power System.**
 - b. For Minimum 5 (five) years' experience criteria the first work order should be on or before the cut-off date
5. The contractors shall upload the following information/documents on MSTC site to satisfy the Bank about their eligibility

(a)	Composition of the firm	Full particulars (whether contractor is an individual, or a partnership firm, or a company etc.,) of the composition of the firm of contractors in details should be submitted along with name(s) and address (es), of the partner's copy of the Articles of Association/ Power of Attorney/other relevant document.
(b)	Work experience & Completion of similar works of specified value during the specified period	Copies of the detailed work orders for the qualifying works (4(i) and 4(ii) above) indicating date of award, value of awarded work, time given for completing the work, etc. and the corresponding completion certificates indicating actual date of completion and actual value of executed similar works should be enclosed in proof of the work experience. The details along with documentary evidence of previous experience, if any, of carrying out works for the Reserve Bank of India at any Centre, should also be given.
(c)	Turnover	Audited financial statements for last three financial years i.e., 2021-22, 2022-23 and 2023-24 along with a certificate of Chartered Accountant indicating the turnover for these financial years.
(d)	Credit worthiness of the contractor and their turnover during the specified period	Copies of the Income Tax Clearance Certificates/Income Tax Assessment Orders along with the latest final accounts of the business of the contractor duly certified by a Chartered Accountant should be enclosed in proof of their creditworthiness and turnover for last three years.

(e)	Name(s) and address(es) of the Bankers and their present contact executives	Written Information about the names and addresses of their bankers along with full details, like names, postal addresses, e-mail IDs, telephone (landline and mobile) nos., fax nos., etc. of the contact executives (i.e. the persons who can be contacted at the office of their bankers by the Bank, in case it is so needed) should be furnished.
(f)	Details of bank accounts	Full particulars of their bank accounts, like account no. type, when opened etc., should be given.
(g)	Name(s) and address(es) of the Clients and their present contact executives	Written information about the names and addresses of their clients along with full details, like names, postal addresses, e-mail IDs, telephone (landline and mobile) nos., fax nos. etc., of the contact executives (i.e. the persons who can be contacted at the office of their clients by the Bank in case it is so needed) should be furnished.
(h)	Details of completed works	The client-wise names of work(s), year(s) of execution of work (s), awarded and actual cost (s) of executed work (s), completion time stipulated in the contract (s) and actual time taken to complete the work (s), Name(s) and full contact-details of the officers/authorities/departments under whom the work(s) was/were executed should be furnished.
(i)	Details of Service setup	Address and contact details of the service set up at the place of proposed work for rendering after sales service.

6. In the event of intending tenderer's failure to satisfy the Bank; the Bank reserves the right to refuse to participate in tendering process
7. A pre-bid meeting (off-line mode) of the intending tenderers will be held on **September 24, 2024 at 11.00 AM** at Estate Department, 1st floor, Reserve Bank of India, Nagpur, 440001. The duly filled in tender documents shall be uploaded on MSTC site till **02:00 PM** on **October 08, 2024**.
8. (a) Tender forms can be downloaded for viewing from the website www.mstcecommerce.com/eprocn w.e.f. August 21, 2024 from 05:00 PM.

 (b) **EMD of ₹.1,48,395/-** in the form of NEFT as per details in [Annexure-L](#) or an irrevocable Bank Guarantee issued by a scheduled Bank in the Bank's standard proforma which is available in the tender form ([Annexure-J](#))

 (c) Tenderers shall submit all the information and the documents as mentioned in Para 5 above.

After examination, if any of the tenderer is not found to possess the required eligibility, their tenders will not be accepted by the Bank for further processing.

9. Part I of the tenders will be opened on-line at **03:00 PM on October 08, 2024**, in the presence of the authorized representative of the tenderers who choose to be present. Part-II (Price bid) of the eligible tenderer shall be opened on a subsequent date which will be intimated to the tenderers in advance.
10. The applicants/tenderers have to upload
 - a. Client's certificate as per format at [Annex-G](#) from their clients for whom they have carried out "eligible works" in terms of the eligibility (Pre-qualification) criteria explained in this notice.
 - b. Banker's certificate as per format at [Annex-H](#) from their banker/bankers.

The **client's certificate** shall be accepted only when the same is signed by an official of the rank of Executive engineer/Superintendent Engineer or equivalent **in respect of a Government/Semi Government organization or a PSU** and only when they are supported by adequate proof of payment received by the contractor for the work done by him. The client's certificate issued by **the private organizations** shall also accompany Tax Deducted at Source (TDS) certificates. Applications/tenders uploaded without the above certificates may be rejected. The Bank shall have the right to independently verify these certificates

The Bank shall evaluate the said reports before opening of price bid of the tenders. If any tenderer is not found to possess the required eligibility for participating in the tendering process at any point of time and/or his performance reports received from his clients and/or his bankers are found unsatisfactory, the Bank reserves the right to reject his offer even after opening of Part-I of the tender. The Bank is not bound to assign any reason for doing so. The Bank is not bound to accept the lowest tender and reserves the right to accept either in full or in part any tender. The Bank also reserves the right to reject all the tenders without assigning any reason there for.

Nagpur:
Date

Regional Director

Important instructions for E-procurement

Bidders are requested to read the terms & conditions of this tender before submitting your online tender.

1

Process of E-tender:

A) Registration: The process involves vendor's registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Technical Bid as well as Commercial Bid will be done over the internet. The Vendor should possess Class III signing type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE TECHNICAL BID AND THE COMMERCIAL BID HAS TO BE SUBMITTED ON-LINE AT www.mstcecommerce.com/eprocn

1). Vendors are required to register themselves online with www.mstcecommerce.com → e-Procurement → New Common Portal → >Register as Vendor -- Filling up details and creating own user id and password → Submit.

2) Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form. In case of any clarification, please contact RBI/MSTC, (before the scheduled time of the e- tender).

Contact person (RBI):

1. N.Venkatesh, Asstt.Manager- venkateshn@rbi.org.in, 07122806332
2. RK Khandelwal, Asstt.Manager- rkkhandeklwal@rbi.org.in - 0712280334

Contact person (MSTC Ltd) for Vendors:

HO Central Help Desk: (For vendors)

Phone Number :07969066600

helpdesk@mstcindia.in (Please mention "HO Helpdesk" as subject while sending emails)

WRO Helpdesk:7651915418/02269856817/02269856800

Availability

9:30 AM to 5:00 PM on all working days for all Technical issues e-Tenders, System settings etc.

Contact person (MSTC,WRO):

Tanmoy Sarkar, Deputy Manager, Mobile:8349894664

B) System Requirement:

i) Windows 7 or above Operating System ii) IE-7 and above Internet browser.

	iii) Signing type digital signature iv) Latest updated JRE 8 (x86 Offline) software to be downloaded and installed in the system.
--	--

	To disable “Protected Mode” for DSC to appear in The signer box following settings may be applied. □ Tools => Internet Options => Security => Disable protected Mode If enabled- i.e, Remove the tick from the tick box mentioning “Enable Protected Mode”. □ Other Settings: Tools => Internet Options => General => Click On Settings under “browsing history/Delete Browsing History” => Temporary Internet Files => Activate “Every time I Visit the Webpage”. To enable ALL active X controls and disable ‘use pop up blocker’ under Tools→Internet Options→ custom level (Please run IE settings from the page www.mstcecommerce.com/eprocn once)
2	The Techno-commercial Bid and the Price Bid shall have to be submitted online at www.mstcecommerce.com/eprocn. Tenders will be opened electronically on specified date and time as given in the Tender.
3	All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
4	Special Note towards Transaction fee: The vendors shall pay the transaction fee using “Transaction Fee Payment” Link under “My Menu” in the vendor login. The vendors have to select the particular tender from the event dropdown box. The vendor shall have the facility of making the payment either through NEFT or Online Payment. On selecting NEFT, the vendor shall generate a challan by filling up a form. The vendor shall remit the transaction fee amount as per the details printed on the challan without making change in the same. On selecting Online Payment, the vendor shall have the provision of making payment using its Credit/ Debit Card/ Net Banking. Once the payment gets credited to MSTC’s designated bank account, the transaction fee shall be auto authorized and the vendor shall be receiving a system generated mail. <u>Transaction fee is non-refundable.</u> A vendor will not have the access to online e-tender without making the payment towards transaction fee. <u>NOTE</u> Bidders are advised to remit the transaction fee well in advance before the closing time of the event so as to give themselves sufficient time to submit the bid.
5	Information about tenders /corrigendum uploaded shall be sent by email only during the process till finalization of tender. Hence the vendors are required to ensure that their corporate email I.D. provided is valid and updated at the time of registration of vendor with MSTC. Vendors are also requested to ensure validity of their DSC (Digital Signature Certificate).
6	E-tender cannot be accessed after the due date and time mentioned in NIT.

7	Bidding in e-tender: a) Vendor(s) need to submit necessary EMD and Transaction fees (If ANY) to be eligible to bid online in the e-tender. Transaction fees are non-refundable. No interest will be paid on EMD. EMD of the unsuccessful vendor(s) will be refunded by the tender inviting authority.
	b) The process involves Electronic Bidding for submission of Technical and Commercial Bid. c) The vendor(s) who have submitted transaction fee can only submit their Technical Bid and Commercial Bid through internet in MSTC website www.mstcecommerce.com → e-procurement → New Common Portal → My menu → Auction Floor Manager → live event → Selection of the live event d) The vendor should allow running JAVA application. This exercise has to be done immediately after opening of Bid floor. Then they have to fill up Common Terms/Commercial specification and save the same. After that click on the Technical bid. If this application is not run then the vendor will not be able to Save/submit his Technical bid. e) After filling the Technical Bid, vendor should click 'save' for recording their Technical bid. Once the same is done, the Commercial Bid link becomes active and the same has to filled up and then vendor should click on "save" to record their Commercial bid. Then once both the Technical bid & Commercial bid has been saved, the vendor can click on the "Final submission" button to register their bid f) Vendors are instructed to use Attach Doc button to upload documents. Multiple documents can be uploaded. g) In all cases, vendor should use their own ID and Password along with Digital Signature at the time of submission of their bid. h) During the entire e-tender process, the vendors will remain completely anonymous to one another and also to everybody else. i) The e-tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above. j) All electronic bids submitted during the e-tender process shall be legally binding on the vendor. Any bid will be considered as the valid bid offered by that vendor and acceptance of the same by the Buyer will form a binding contract between Buyer and the Vendor for execution of supply. k) It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system. l) Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof. No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any vendor confirms his acceptance of terms & conditions for the tender.
8	Any order resulting from this tender shall be governed by the terms and conditions mentioned therein.
9	No deviation to the technical and commercial terms & conditions are allowed.

10	The tender inviting authority has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
11	Vendors are requested to read the vendor guide and see the video in the page www.mstcecommerce.com/eprocn to familiarize them with the system before bidding.

INDEX

Sr. No.	Description	Page No.
1.	Section-I: Form of Tender, Memorandum	14
2.	Section-II: Articles of Agreement	17
3.	Section-III: General instructions to tenderer & special Conditions	25
4.	Section-IV: Safety code, fire safety	41
5.	Section-V: The condition herein before referred to and Appendix	43
6.	Section-VI: Check list.	62
7.	Section-VII: Technical specifications	63
8.	Annexure A- Schedule of Technical Information	77
9.	Annexure B- Guaranteed Energy Generation	82
10.	Annexure C- Format for undertaking Product & Maintenance Support	83
11.	Annexure D – Undertaking regarding service after sales	84
12.	Annexure E- Declaration of Country of Origin	86
13.	Annexure F- Format for factory acceptance test	87
14.	Annexure G- Proforma for client's certificate	88
15.	Annexure H- Proforma for Banker's certificate	90
16.	Annexure I- Format for power of attorney for signing of Proposal	91
17.	Annexure-J- Proforma for Bank guarantee in lieu of earnest money deposit	92
18.	Annexure K- Proforma for Bank guarantee for security deposit	94
19.	Annexure – L – NEFT Details	97
20.	Annexure – M – Declaration by bidder	98
21.	Annexure – N – Declaration by bidder	100
20.	Unpriced Bill of Quantities (not for quote)	101

Section I
Form of Tender

Place__
Date __

**The Regional Director
Reserve Bank of India
ESTATE
DEPARTMENT,
Nagpur- 440001**

Dear Sir/Madam,

We have carefully examined the specifications, designs and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the installation site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender. We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum at the rates mentioned in the attached Schedule of Quantities and in accordance in all respects with specifications, designs and instructions in writing referred to in articles of agreement, general instructions to the tenderers and special conditions, conditions hereinbefore referred to, specifications, data sheet and schedule of quantities and with such materials as are provided for, by and in all other respects, in accordance with such conditions so far as they may be applicable.

MEMORANDUM

(a)	Description of works	DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.
(b)	Estimated cost	₹.74,19,760/-
(c)	Mode of payment	As per clause 3.12 General Instructions to Contractors and Special Conditions.
(d)	Earnest Money	₹.1,48,395/-
(e)	Time allowed for completion of work from fourteenth day of the date of work order.	12 weeks

2. We also agree that our tender will remain **valid for acceptance by the Bank for 90 days from the date of opening of Part I of the tender** and this period of validity can be extended for such period as may be mutually agreed between the Bank and

us in writing. We also agree to keep the Bank Guarantee towards earnest money valid during the entire period of validity of tender, as per enclosed proforma ([Annexure J](#)).

3. Should this Tender be accepted, I/we hereby agree to abide by and fulfil all the Terms and Conditions of the Tender and in default thereof, to forfeit and pay to you or your successors, or assignees or nominees such sums of money as are stipulated in the conditions contained in the tender together with the written acceptance of the Contract.
4. I/We understand that you reserve the right to accept or reject any or all the tender either in full or in part without assigning any reason therefor. We have deposited a sum of **₹.1,48,395/-** as earnest money with the Reserve Bank of India, which amount is not to bear any interest. Should we fail to execute the Contract when called upon to do so, we do hereby agree that this sum shall be forfeited by us to the Reserve Bank of India.
5. The tenders shall be uploaded in two parts. Part I contains all commercial terms and conditions, technical particulars and Part II contains only the price bid in the Bank's proforma.

Dated: _____ day of _____ 2024.

For and on behalf of M/s _____

(Signature with seal)

Name _____
Designation _____
Place _____
Date _____

(Certified true copy of the Power of Attorney of the above signatory should be enclosed).

Witnesses

(1) Signature with _____

name, address and date

(2) Signature with
name, address and date

Section II
Draft Articles of Agreement

यह करार वर्ष 2024 को _____ तारीख को नागपुर में, प्रथम पक्षकार भारतीय रिज़र्व बैंक जिसका मुख्य कार्यालय, Dr Raghvendra Rao Road, नागपुर में है (जिसे आगे बैंक कहा जाएगा) तथा द्वितीय पक्षकार मेसर्स ----- जिसका पंजीकृत कार्यालय ----- में स्थित है जिसे आगे "ठेकेदार" कहा जाएगा) के बीच किया जाता है।

ARTICLES OF AGREEMENT made theday of....., 2024 between the Reserve Bank of India (hereafter called "Bank") having its office at Dr Raghvendra Rao Road, Nagpur - 440001 on the one part and M/s _____ having its Registered Office at _____ (Thereinafter called "the Contractor") on the other part.

चूंकि,

नियोक्ता, बैंक के कर्मचारी आवासीय परिसर (अवंतिका), चार इमली, नागपुर में DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur. का इच्छुक है (जिसे आगे उक्त कार्य कहा जाएगा) और उसने निर्धारित कार्य का वर्णन करते हुये ड्राइंग, विशिष्टताओं और परिमाणों की सूची आमंत्रित की है। तथा चूंकि संख्या _____ से, तक की उक्त ड्राइंग, विशिष्टताओं, और परिमाणों की सूची पर पार्टियों या उनकी ओर से हस्ताक्षर किए गए हैं।

WHEREAS the Employer is desirous of **DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur (hereinafter called "the said work")** and has caused drawings, specifications and schedule of quantities describing the work to be done. AND WHEREAS the said drawings from Numbers _____ to _____, the specifications, and the schedule of quantities have been signed by or on behalf of the parties hereto.

और चूंकि ठेकेदार निर्धारित शर्तों और विशेष परिस्थितियों में निर्धारित शर्तों के अनुसार और संविदा की परिमाणों की सूची और संशोधित शर्तों के अधीन काम करने के लिए सहमत हो गया है और अंतिम रूप से दोनों पक्षों द्वारा स्वीकृत है (जिसे आगे सामूहिक रूप से "उक्त शर्तें" कहा जाएगा), उक्त ड्राइंग में दर्शाए गए और / या उक्त विशिष्टताओं में वर्णित कार्यों और इसमें निर्धारित दरों पर परिमाणों की सूची में शामिल, राशि के बराबर या इस तरह का अन्य योग (जिसे आगे "उक्त अनुबंध राशि" कहा जाएगा) इसके लिए देय हो जाएगा।

AND WHEREAS the Contractor has agreed to execute upon the subject work to the conditions set forth herein and to the conditions set forth in the special conditions and in the schedule of quantities and conditions of Contract as modified and finally accepted by both the parties (all of which are collectively hereinafter referred

to as "the said Conditions") the works shown upon the said drawings and/or described in the said Specifications and included in the Schedule of quantities at the respective rates therein set forth, amounting to the sum as therein arrived at or such other sum as shall become payable there under (hereinafter referred to as "the said Contract Amount").

अब दोनों पक्ष पारस्परिक रूप से इस पर निम्नानुसार सहमत हैं:

NOW IT IS HEREBY AGREED AS FOLLOWS:

उक्त संविदा के संबंध में भुगतान समय पर और संविदा की उक्त शर्तों के अनुसार किया जाना है, ठेकेदार उक्त शर्तों के अधीन ड्राइंग में दर्शाए गए और उक्त विशिष्टताओं तथा परिमाणों की अनुसूची में वर्णित कार्य को निष्पादित करेगा और पूरा करेगा।

In consideration of the said Contract amount to be paid at the times and in the manner set forth in the said conditions, the Contractor shall, upon and subject to the said conditions, execute and complete the work shown upon the said drawings and described in the said specifications and the schedule of quantities.

2.1. नियोक्ता ठेकेदार को उक्त संविदा राशि या किसी अन्य राशि का भुगतान करेगा जो उस समय और उक्त शर्तों में निर्दिष्ट तरीके से देय हो।

The Employer shall pay the Contractor the said Contract amount or such other sum as shall become payable at the times and in the manner specified in the said conditions.

2.2. उक्त शर्तों में "आर्किटेक्ट" शब्द का अर्थ मुख्य महाप्रबंधक, परिसर विभाग, केंद्रीय कार्यालय, भारतीय रिजर्व बैंक, नागपुर से है और किसी भी कारण से इस अनुबंध के प्रयोजन हेतु उनको आर्किटेक्ट नहीं होने पर, ऐसे अन्य व्यक्ति या व्यक्तियों को नियोक्ता द्वारा उक्त प्रयोजन के लिए नामित किया जाएगा, जो ऐसा व्यक्ति नहीं होगा जिस पर ठेकेदार किसी कारण से आपत्ति उठाए और नियोक्ता उसे उपर्युक्त माने, बशर्ते कि कोई व्यक्ति अथवा व्यक्तियों जिसे बाद में आर्किटेक्ट के रूप में नियुक्त किया गया हो उस समय लिखित में दिए गए किसी भी पिछले निर्णयों या अनुमोदन या निर्देश को अनदेखा या ओवररूल करने का अधिकार नहीं होगा।

The term "Architect" in the said conditions shall mean CGM, Premises Department, Central Office, Reserve Bank of India, Nagpur and on his ceasing to be the architect for the purpose of this Contract for whatever reason, such other person or persons as shall be nominated for that purposes by the Employer, not being a person to whom the Contractor shall object for reasons considered to be sufficient by the Employer PROVIDED ALWAYS that no person or perhaps persons subsequently appointed to be architect under this Contract shall be entitled to disregard or overrule any previous decisions or approval or direction given or expressed in writing by the architect for the time being.

2.3. उक्त शर्तें और परिशिष्ट और उक्त कार्य के संबंध में निविदा स्वीकृति पत्र की तिथि तक नियोक्ता और ठेकेदार के बीच में हुये किसी भी पत्राचार को इस करार का हिस्सा माना जाएगा और पक्षकारों द्वारा इनका क्रमशः पालन किया जाएगा, स्वयं को उक्त शर्तों के समक्ष प्रस्तुत करेंगे और उक्त शर्तों के अनुसार करार का निष्पादन करेंगे।

The said conditions and Appendix thereto and any correspondence exchanged between the Employer and the contractor in connection with the said work till the date of letter of acceptance of their tender shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by, submit

themselves to the said Conditions and perform the agreements on their part respectively in the said Conditions contained.

2.4. उक्त शर्तों और उसके परिशिष्ट को इस करार के एक भाग के रूप में माना जाएगा और इसके पक्षकार उक्त शर्तों का पालन करेंगे और शर्तों के अनुसार इस करार को निष्पादित करेंगे।

The said Conditions, Annexures and Appendix thereto shall be read and construed as forming part of this agreement and the parties hereto shall respectively abide by, submit themselves to the said conditions and perform the agreements on their part respectively in the said conditions contained.

2.5. मूल निविदा दस्तावेज की धारा II, III और IV तक के साथ यहां उल्लिखित ड्राइंग, करार और दस्तावेज और बैंक द्वारा उक्त प्रणाली के रखरखाव हेतु ठेकेदार को भविष्य में जारी किए जानेवाले सभी व्यापक वार्षिक रखरखाव अनुबंध कार्य आदेश इस अनुबंध का आधार रहेंगे, जो निविदा दस्तावेज में उल्लिखित उपकरणों के जीवनकाल तक मान्य रहेंगे।

The drawings, agreement and documents mentioned herein along with the Sections II, III, IV, V, VI and VII of the original tender document, Appendix and Annexures, work orders that would be issued by the Bank to the Contractor for the said work shall form the basis of this Contract which will be valid as mentioned in the tender document.

2.6. यह संविदा न तो एक निश्चित एकमुश्त संविदा है और न ही काम का एक हिस्सा है, लेकिन यह DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur.के संबंध में काम करने हेतु एक संविदा है, जिसके लिए दर अनुसूची और प्रोबेबल क्वान्टिटी या उक्त शर्तों में निहित दरों/राशि के अनुसार भुगतान किया जाएगा।

This Contract is neither a fixed lump sum contract nor a piece work but is a contract to carry out the work in respect of provision of **Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ at Nagpur**, to be paid for at the rates/amount contained in the Schedule of Rates and Probable Quantities or as provided in the Said Conditions.

2.7. ठेकेदार उक्त शर्तों में निर्धारित तरीके से सिविल कार्य, विद्युत अधिष्ठापन, फिटिंग और अन्य सहायक कार्य से संबंधित सभी कार्य को पूरा करने के लिए हर उचित सुविधा को वहन करेगा और ऐसे कार्य के पूरा होने के बाद दीवारों, फर्श आदि को हुये किसी भी नुकसान को ठीक करेगा।

The Contractor shall afford every reasonable facility for carrying out of all works relating to civil works, electrical installations, fittings and other ancillary works in the manner laid down in the said conditions, and shall make good any damages done to walls, floors, etc., after the completion of such works.

2.8. नियोक्ता इस संविदा की अवधि के दौरान किसी भी समय कार्य के स्वरूप और ड्राइंग में कुछ जोड़कर अथवा कुछ हटाकर

अथवा उसके कुछ भाग को रखकर परिवर्तन करने का स्वयं अधिकार सुरक्षित रखता है जो इस संविदा पर प्रतिकूल प्रभाव डाले बिना होगा।

The Employer reserves to itself the right of altering the drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out at any time during the currency of Contract, without prejudice to this Contract.

2.9. समय को इस अनुबंध का सार माना जाएगा और ठेकेदार उक्त शर्तों के अनुसार कार्य आदेश जारी होने की तारीख के चौदहवें 14 दिन से काम शुरू करने और 12 सप्ताह की अवधि के भीतर पूरा काम पूरा करने के लिए सहमत है। कार्य आदेश की तारीख का 14 चौदहवें दिन, फिर भी पार्टियों द्वारा पारस्परिक रूप से तय किए गए ऐसे फॉर्म (यानी समझौते के विलेख के माध्यम से या पत्रों/ईमेल के आदान-प्रदान के माध्यम से) में लिखित रूप में समय के विस्तार के अधीन है।

Time shall be considered as the essence of this Contract and the contractor hereby agrees to commence the work from Fourteenth day of the date of issue of work order as provided for in the said Conditions and to complete the entire work within a period of 12 weeks from the 14th day of date of work order subject nevertheless to the extension of time in writing by such form (i.e., by way of a deed of agreement or by exchange of letters/emails) as may be mutually decided by the parties.

2.10. इस संविदा के तहत बैंक द्वारा सभी भुगतान केवल भारतीय रिजर्व बैंक, नागपुर में किए जाएंगे।

All payments by the Employer under this Contract will be made only at Reserve Bank of India, Nagpur.

2.11. इस करार या इससे संबंधित सभी विवाद नागपुर में उत्पन्न माने जाएंगे और इनके निर्धारण का क्षेत्राधिकार सिर्फ नागपुर में स्थित न्यायालयों को होगा।

All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Nagpur and only Courts in Nagpur shall have jurisdiction to determine the same.

2.12. यह कि इस संविदा के सभी भागों को ठेकेदार द्वारा पढ़ और पूरी तरह से समझ लिया गया है।

That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor.

2.13. **गैर प्रकटीकरण खंड Non-disclosure clause:**

ठेकेदार बैंक के बुनियादी ढांचे / प्रणालियों / उपकरणों आदि के बारे में प्रत्यक्ष या अप्रत्यक्ष रूप में किसी भी सूचना, सामग्री तथा विवरण, जो इस करार के संबंध में अपने संविदात्मक दायित्वों का निर्वहन करने के दौरान ठेकेदार के संज्ञान में आ सकते हैं, का खुलासा तृतीय पक्ष को नहीं करेगा तथा हर समय इस कठोर विश्वास को बनाए रखेगा। ठेकेदार लागू कानून के अनुपालन तथा दायित्व का निर्वहन करने के लिए वर्तमान आवश्यकता के अतिरिक्त करार के विवरण को निजी और गोपनीय मानेगा। ठेकेदार बैंक की पूर्व लिखित सहमति के बिना किसी भी स्थान पर अथवा

किसी भी व्यापार अथवा तकनीकी दस्तावेज़ में कार्य के किसी भी विवरण को प्रकाशित करना, प्रकाशित करने की अनुमति तथा खुलासा नहीं करेगा। किसी भी गोपनीय सूचना के प्रकटीकरण के परिणामस्वरूप बैंक को हुए किसी भी नुकसान की क्षतिपूर्ति ठेकेदार करेगा। उपरोक्त का पालन करने में विफल होने पर इसे ठेकेदार की ओर से करार का उल्लंघन माना जाएगा तथा बैंक नुकसान का दावा करने तथा कानूनी कदम उठाने के लिए पात्र होगा। ठेकेदार इस करार के तहत गोपनीय जानकारी के गैर प्रकटीकरण के दायित्व को पूरी तरह से सुनिश्चित करने के लिए अपने कर्मचारियों के संबंध में उचित कार्यवाई करेगा। गैर प्रकटीकरण तथा गोपनीयता के संबंध में ठेकेदार की बाध्यता, जो भी कारण हो, इस करार को समाप्त होने से बचाए रखेगी।

The contractor shall not disclose directly or indirectly any information, materials and of the Bank's infrastructure/ system/equipment's etc. which may come to the profession or knowledge of the contractor during the course of discharging its contractual obligations in connection with the agreement, to any third party and shall at all times hold the same in strictest confidence. The contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The contractor shall not publish, permit to be published, or disclose any particulars of the works in any trade or technical paper or elsewhere without the previous written consent of the Employer. The contractor shall indemnify the Employer for any loss suffered by the Employer as a result of disclosure of any confidential information. Failure to observe the above shall be treated as breach of contract on the part of the contractor and the Employer shall be entitled to claim damages and pursue legal remedies. The contractor shall take all appropriate actions with respect to its employees to ensure that the obligations of non-disclosure of confidential information under this agreement are fully satisfied. The contractor's obligations with respect to non-disclosure and confidentiality will survive the expiry or termination of this agreement for whatever reason.

2.14. यौन उत्पीड़न खंड Sexual harassment Clause:

अ) ठेकेदार, "कार्य स्थल पर महिलाओं का यौन उत्पीड़न (रोकथान, निषेध और निवारण) अधिनियम, 2013" के प्रावधानों के पूर्ण अनुपालन के लिए पूरी तरह से जिम्मेदार होगा। बैंक के परिसर में अपने कर्मचारी के खिलाफ यौन उत्पीड़न की किसी भी शिकायत के मामले में, शिकायत ठेकेदार / एजेंसी या स्थानीय शिकायत समिति द्वारा गठित आंतरिक शिकायत समिति के समक्ष दर्ज की जाएगी जैसे भी मामला हो और ठेकेदार / एजेंसी के शिकायत के संबंध में उक्त अधिनियम के तहत उचित कार्यवाई सुनिश्चित करेगा।

आ) बैंक के किसी कर्मचारी या बैंक में कार्यरत किसी अन्य फर्म के किसी भी कर्मचारी के खिलाफ सेवा प्रदाता के किसी भी पीडित कर्मचारी से यौन उत्पीड़न की किसी भी शिकायत पर बैंक द्वारा गठित क्षेत्रीय शिकायत समिति द्वारा संग्रहण लिया जाएगा।

इ) ठेकेदार किसी भी मौद्रिक मुआवजे के लिए जिम्मेदार होगा, जिसका भुगतान करने की आवश्यकता हो सकती है। यदि घटना में ठेकेदार के कर्मचारी शामिल हैं, उदाहरण के लिए बैंक के कर्मचारी या अन्य फर्म के कर्मचारी को कोई मौद्रिक राहत, यदि ठेकेदार के कर्मचारी द्वारा यौन हिंसा साबित होती है।

ई) कार्यस्थल पर यौन उत्पीड़न की रोकथाम और संबंधित मुद्दों के बारे में अपने कर्मचारियों को शिक्षित करने के लिए ठेकेदार जिम्मेदार होगा।

उ) ठेकेदार बैंक के परिसर में तैनात कर्मचारियों की पूरी और अद्यतन सूची उपलब्ध कराएगा।

- a) The contractor shall be solely responsible for full compliance with the provisions of “the Sexual Harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013. In case of any complaint of sexual harassment against its employee within the premises of the Bank, the complaint will be filed before the internal complaints committee constituted by the contractor/Agency or Local Complaints committee as the case may be and the contractor/ agency shall ensure appropriate action under the said Act in respect of the Complaint.
- b) Any complaint of sexual harassment from any aggrieved employee of the service provider against any employee of the Bank or any employee of any other firm working in the Bank shall be taken cognizance of by the Regional Complaints Committee constituted by the Bank.
- c) The Contractor shall be responsible for any monetary compensation that may need to be paid in case the incident involves the employees of the contractor, for instance any monetary relief to Bank’s employee or other firm’s employee, if sexual violence by the employee of the contractor is proved.
- d) The Contractor shall be responsible for educating its employees about prevention of sexual harassment at work place and related issues.
- e) The Contractor shall provide a complete and updated list of employees who are deployed within the Bank’s premises.

2.15. अप्रत्याशित घटना Force Majeure:

इस करार के तहत दायित्वों को पूरा करने में किसी चूक के लिए कोई भी पार्टी जिम्मेदार नहीं मानी जाएगी, यदि चूक किसी पार्टी के नियंत्रण से परे कार्य के परिणामस्वरूप हुई हो (जैसे दैवी संकट, युद्ध की स्थिति, विद्रोह, महदूर हड़ताल, किसी सरकारी कार्य, भूकंप, तूफान, टाइफून और अन्य प्राकृतिक आपदा आदि)। प्रत्येक पक्ष इस करार के तहत निष्पादन किए जाने वाले कार्यों को जारी रखने के सभी संभव प्रयास करने के लिए सहमति व्यक्त करती है। यदि अप्रत्याशित घटनाओं के कारण कार्य निष्पादन में बाधा की अवधि 30 दिनों से अधिक हो जाती है, तो पार्टी जिसकी कार्य निष्पादन क्षमता प्रभावित नहीं हुई है, लिखित सूचना देते हुए इस करार को निरस्त कर सकती है।

If either party is unable to perform its obligations under this Agreement due to the occurrence of an event beyond its control (such as acts of God, war like situations, riots, labor strike, government actions, earthquakes, cyclones, typhoons, and other natural calamities, etc.), that party will not be deemed to have defaulted under this Agreement. Each party agrees to use all reasonable efforts to enable performance under this Agreement to continue. If the period of non-performance due to a force majeure event exceeds 30 days, the party whose ability to perform has not been so affected may, by giving written notice, terminate this Agreement.

2.16 मैं _____ कि

_____ मुझे प्रदत्त किया गया है। मैं वचन देता/देती हूँ कि मुझे प्रदत्त कार्य को पूरा करने के लिए मेरे द्वारा लगाए जाने वाले सभी मजदूरों को सभी प्रकार की मजदूरी का वास्तविक भुगतान उस दर पर किया जाएगा जो न्यूनतम मजदूरी अधिनियम 1948 के तहत निर्धारित दर से कम नहीं है तथा सीएलआरए अधिनियम 1970 के प्रावधानों के अनुपालन को सुनिश्चित करने और साथ ही ऐसे वेतन का भुगतान और सीएलआरए अधिनियम 1970 के प्रावधानों का पालन करने में विफलता के कारण सांविधिक प्राधिकारियों द्वारा प्रिंसिपल नियोक्ता के विरुद्ध प्रारंभ की जाने वाली सभी कार्रवाइयों के लिए प्रिंसिपल नियोक्ता को क्षतिपूर्ति रखने का वचन देता/देती हूँ। मैं समय-समय पर सरकारी

अधिकारियों/बैंक के अधिकारियों के निरीक्षण के लिए सभी आवश्यक दस्तावेज/रिकॉर्ड रखूंगा/रखूंगी और उनका रख-रखाव करूंगा/करूंगी।

I _____ that the work of _____ awarded to me. I undertake to actually pay wages to all labourers of all description to be engaged by me for completion of _____ work awarded to me at the rate which is not less than the one prescribed under Minimum Wages Act 1948 and to ensure compliance to the provisions of CLRA Act 1970 and also keep the principle Employer indemnified against all the actions that may be initiated against the Principle Employer by the Statutory Authorities for his failure to pay such wages and for failure to comply with the provisions of CLRA Act 1970. I shall keep and maintain all necessary documents/records for inspection of Government authorities/Bank’s officials from time to time.

यदि ठेकेदार एक साझेदारी फार्म अथवा व्यक्ति हो If the Contractor is a partnership or an individual	गवाह जिनकी मौजूदगी में ऊपर उल्लिखित दिनांक और वर्ष को नियोक्ता और ठेकेदार दोनों ने इस करार को निष्पादित करने हेतु हस्ताक्षर किया है और यह डुप्लीकेट में तैयार की गई है। IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof
यदि ठेकेदार एक कंपनी हो If the Contractor is a company	गवाह जिनकी मौजूदगी में ऊपर उल्लिखित दिनांक और वर्ष को इस करार को निष्पादित करने हेतु नियोक्ता और ठेकेदार दोनों ने अपने विधिवत प्राधिकृत अधिकारियों के माध्यम से मुहर सहित हस्ताक्षर किया है तथा यह डुप्लीकेट में तैयार की गई है IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and the Contractor has caused its common seal to be affixed hereunto and the said two duplicates / has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written.

हस्ताक्षर खण्ड

Signature Clause:

भारतीय रिज़र्व बैंक की ओर से निम्नलिखित द्वारा हस्ताक्षर और सुपुर्द किया गया।
SIGNED AND DELIVERED by the Reserve Bank of India by the hand of

श्री /Shri (नाम और पदनाम)/(Name and designation)
.....
.....की उपस्थिती में/in the presence of

(1)

(नाम और पदनाम)
(Name & Designation)

संपदा विभाग

Estate Department

भारतीय रिज़र्व बैंक, नागपुर कार्यालय

Reserve Bank of India, Nagpur

(गवाह/witness)

(2)

(नाम और पदनाम)

(Name & Designation)

संपदा विभाग

Estate Department

भारतीय रिज़र्व बैंक, नागपुर कार्यालय

Reserve Bank of India, Nagpur

(गवाह/witness)

द्वारा हस्ताक्षरित और सुपुर्द SIGNED AND DELIVERED BY

यदि पार्टी साझेदारी फ़र्म या एक व्यक्ति है तो सभी साझेदारों द्वारा या उन सभी की ओर से हस्ताक्षरित किया जाना चाहिए

If the party is a partnership firm or an Individual should be signed by all or on behalf of all the Partners

निम्न की उपस्थिति में In the presence of:

(1)

पता/Address: -----

(गवाह/Witness)

(2)

पता/Address: -----

(गवाह/Witness)

Note:

बैंक, ठेकेदार के साथ करार से पहले करार की शर्तों में संशोधन करने का अधिकार सुरक्षित रखता है ।

Bank reserves the right to modify the contents of the Articles of the Agreement before the agreement is entered with the contractor.

Section III

General Instructions to Tenderers and Special Conditions

3.1 Commercial conditions:

3.1.1 **e-Tenders are invited for** DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur. **for an estimated cost of ₹. 74,19,760/- from eligible firms.**

3.1.2. Eligibility Criteria:

Bidders will be allowed to view /download online tender from 05:00 PM of August 21, 2024. **The firms which do not comply with the following pre-qualification criteria and do not submit EMD, will not be considered for opening of their tender Part-II**

- B.** The intending tenderer must have 5 years of experience (work order on or before cut-off date) in carrying out grid interactive solar power system installation works for office buildings/commercial premises. The work should have been completed on or before July 31, 2024.
- The intending tenderer must have executed successfully **similar works***, during last five years ending on July 31, 2024 as under:
 - (a) Three works each costing not less than the amount equal to 40% of the estimated cost
 - OR
 - (b) Two works each costing not less than the amount equal to 50% of the estimated cost
 - OR
 - (c) One work costing not less than the amount equal to 80% of the estimated cost.
 - Minimum yearly turnover of **100% of the estimated cost** during last 3 financial years supported by audited financial statements.
 - Should have **service setup at Nagpur** for rendering after sales service. The address proof should be attached along with Part I of the tender for verification.

Note:

- c. *** Similar Works means - works of Design, Supply, Installation, Testing and Commissioning of grid interactive SPV based Solar Power System.**
- d. For Minimum 5 (five) years' experience criteria the first work order should be on or before the cut-off date

Tenderers should submit the following documents in respect of their eligibility:

- Copies of detailed work order indicating scope and value of works for the qualifying works.
- Completion certificate for the qualifying works.
- A certificate issued by Chartered Accountant indicating **turnover** for last three years along with the audited Financial statement for the same period.
- List of completed works with all the details.
- Financial statement for turnover for last 3 years

A Tender submitted by a firm who is found to be not satisfying the above criteria will be rejected

3.1.3 Tender submission:

The tender shall be submitted online on MSTC site in two parts, viz, Part I and Part II "Part-I – Technical and Commercial" and "Part II – Price bid", respectively.

3.2 Pre-Bid Meeting: A pre-tender briefing meeting of the intending tenderers will be held at **11:00 AM on September 24, 2024** at 1st floor, ESTATE DEPARTMENT, Nagpur to clarify any point/doubt raised by them in respect of the tender. No separate communication will be sent for this meeting. All the intending tenderers are advised to be present and study the tender documents. They may indicate any points/conditions/specifications which need to be clarified during the meeting. These issues will be discussed and all the tenderers will be advised suitably. The tenderers are expected to get all the issues clarified during this meeting and therefore should desist from deviating from the Bank's tender conditions/specifications in their technical (Part I) and Price bids (Part II)

3.3 The tenders shall be submitted / uploaded till **02:00 PM on October 08, 2024**. No tender will be received/accepted after **02:00 PM on October 08, 2024** under any circumstances whatsoever.

3.4 a) Intending tenderers shall remit as Earnest Money a sum of **₹.1,48,395(One Lakh Forty Eight Thousand Three hundred and Ninety Five only)** by NEFT or Bank Guarantee in a

form ([Annexure-J](#)) acceptable to the Bank along with Part I of the tender. The Earnest Money Deposit of the successful tenderer shall be held by the Bank as security for the execution and due fulfilment of the Contract. No interest shall be paid on the said deposit. Under no circumstances Earnest Money Deposit will be accepted in the form of fixed deposit receipts or insurance guarantee or cheque or cash. EMD will be released after virtual completion of the work.

b) On receipt of intimation from the Bank of the acceptance of his / their tender, the successful tenderer shall be bound to implement the contract and within fourteen days thereof. The successful tenderer shall sign an agreement in accordance with the draft agreement and the Schedule of Conditions but the written acceptance by the Bank of a tender will constitute a binding contract between the Reserve Bank of India and the person so tendering whether such formal agreement is or is not subsequently executed.

c) All compensation or other sums of money payable by the contractor to the Bank under the terms of this Contract may be deducted from his earnest money and the security deposit if the amount so permits and the Contractor shall, unless such deposit as become otherwise payable, within ten days after such deduction made good in cash the amount so deducted.

3.5 Part I – Technical & Commercial

3.5.1 Part I shall contain the un-priced tender consisting of complete technical specification including drawings and documents and commercial terms and conditions technical aspects of the tender such as equipment data sheets, tests and inspection, makes of materials, technical description, drawings etc.

3.5.2 Part I of the tender shall form **EMD** and the following:

- a) Power of Attorney/authorisation with the seal of the company/firm in the name of the person signing the tender documents.
- b) List of deviation, if any, in commercial/technical specification.
- c) Detailed proposed **layout drawing** and full equipment details.
- d) **A letter from the OEM, authorising the bidder** to participate in the tender **along with a copy of the agreement with the OEM** as regards implementation of similar projects in India and their after sales service
- e) **Guaranteed DC power generation capacity** of the entire system in KWp.
- f) **Detailed specifications** of each of the offered items such as SPVs, Arrays, PCUs, control panels, control & monitoring systems, cables etc. matching with the

specifications contained under this contract along with manufacturer's **catalogue / product brochure**. If there are some variations in specifications and dimensions of the equipments / products as contained under the manufacturer's catalogue / product brochures vis-a-vis those given under the specifications contained under this tender document, the specifications and dimensions given in this tender document shall prevail.

- g) **Complete technical details** and any special features proposed for incorporation must be given for full technical evaluation. Supporting documents for the claimed facilities/ features shall also be attached while submitting the technical bid.
- h) **Product support for twenty-five (25) years shall be given.** Tenderer shall specifically indicate the product support offered against this tender & submit an undertaking in this regard. ([Annex-C&D](#))
- i) The tenderer should have maintenance set-up at Nagpur. Address & telephone / fax nos. of maintenance set-up shall be indicated and documentary proof of the same should be submitted for verification.
- j) Technical data sheet as given under [Annexure-A](#) shall be filled up giving full information.
- k) Other Certificates / Declarations as per Annexures enclosed to be submitted.
- l) Duly filled in and signed copies of client's reports (from two clients in the attached format, for whom similar works is executed) and Banker's certificate shall be uploaded

3.5.3 The Tenderers are advised to visit the site of installation and acquaint themselves of the site conditions before tendering.

3.5.4 The tenderers are advised to submit the tender based strictly on the General Conditions of the Contract and Technical Specifications contained in the tender documents, and not to stipulate any deviations. If acceptance of the terms and conditions given in the tender documents has any price implications, the same should be considered and included in the quoted price. **A tender containing deviation from the terms and conditions is liable for rejection.**

3.5.5 The tenderers shall submit full details of the patent, trade mark, registered design, intellectual property rights, copy rights, industrial property rights held by them or used by them of any third party with regard to design or any part of the system.

3.5.6 All information, correspondence letters shall be addressed to **Regional Director, Estate Department, Reserve Bank of India, Nagpur-440001.**

3.6 **Part II - Price**

Part II shall contain only prices

- (a) This part shall contain prices in Indian Rupees only with break-up of price as per format (Part II). No other enclosure is permitted in Part II. Change of terms and conditions and technical deviations, if any, found in Part II of the tender will not be taken into account and will be treated as null and void.
- (b) The tenderer must use only the forms/format issued by the Bank to fill in the rates. The tenders shall be filled in English/Hindi. In case of any difference of interpretation between the two versions the English version will be considered valid. If any of the documents is missing or unsigned, the tender may be considered invalid by the Bank in its discretion.
- (c) No request for any change in rate or conditions after the opening of the part II of the tender will be entertained.
- (d) The rates quoted shall be deemed to be for the finished work and shall be firm and binding without any escalation whatsoever till the system is handed over to the Bank.
- (e) For any item, if the rate and amount do not tally with respect to the quantity, then the amount arrived on the basis of quoted rates shall only be acceptable and in case of variation of rates in figures and words, the rate quoted in words will only be considered for arriving at the total amount for that item.
- (f) The lowest bidder declared by e tendering website may not be always actual lowest bidders. Manually all calculations shall be rechecked by the Bank and by only declaration of L1 bidder on e-tendering website does not entitle a contractor to claim any order.

3.7 **Opening of Tender**

Part I of the tenders will be opened online on **October 08, 2024 at 03:00 PM** in the presence of tenderers who choose to be present. Price bid (Part II) of only those tenderers who are found eligible after scrutiny of their Part I of the tenders and eligibility documents will be opened on a subsequent working day which will be intimated to all the eligible tenderers.

3.8 **Brief Scope of Work**

3.8.1 The scope of work shall include the following.

- DSITC of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's Atrey Layout Staff Quarters(ALSQ), Amravati Road staff Quarters(ARSQ), Telangkhedi Road Staff Quarters(TRSQ) and Byramji Town Staff Quarters(BTOQ) at Nagpur including insurance, packing, handling, transporting, loading/unloading etc. at site.
- Erection, Testing, Commission of Solar Power System and handing over the

system to the Bank.

- Providing regular Inspection and Upkeep of system inclusive of periodic service etc. during warranty and all-inclusive Annual maintenance contract.
- Approval, if any, of local statutory authorities for connection to the grid.

3.8.2 The tenderer should indicate the complete description of the working of the system/sub systems and their power requirements with all relevant brochures/literature etc. in addition to those called for in the Technical Specifications:

3.8.3 The Tenderer shall carefully check the specifications and shall satisfy himself that the equipment offered is suitable as per the Bank's Technical Specifications.

3.8.4 Tenderer shall supply all tools, plants, scaffolding, labour and consumables etc. as required for installation, testing and commissioning of the system.

3.9 Validity of Tender

The Tender along with the prices shall remain valid initially for a period of **90 days** from the date of opening of Part I of tender, which period may be further extended by mutual agreement in writing by the Tenderer and the Tenderer shall not cancel or withdraw the tender during this period.

3.10 Lowest Tender Not Necessarily to Be Accepted

3.10.1 The Bank is not bound to accept the lowest or any tender or to assign any reason for non-acceptance.

3.10.2 The tenderers shall not be entitled to claim any costs, charges, damages and expenses of and incidental to or incurred by him through or in connection with his submission of tenders, even though the Bank may elect to modify/withdraw the tender.

3.11 Earnest Money, Security Deposit & Security during Defect liability period

3.11.1 All Tenderers shall deposit Earnest Money of **₹. 1,48,395/-** by a demand draft drawn in favour of Reserve Bank of India, payable at Nagpur, from any Scheduled Bank. The Earnest Money Deposit (EMD) is also acceptable in the form of Bank Guarantee in the approved format. The EMD paid by the e-Tenderer shall be held by the Reserve Bank of India initially valid for 4 months, shall remain un-discharged for such period as may be specified for keeping the tender open. No interest shall be paid on the said deposit. Under no circumstances, Earnest Money Deposit will be accepted in the form of fixed deposit receipts or insurance guarantee or cheque or cash.

The EMD of successful tenderer shall be released on acceptance of the tender **and** on production of a new Bank Guarantee called "**Performance Bank Guarantee (PBG)**" from any scheduled bank in the form prescribed by the Bank in Annex towards security deposit for due fulfilment of the contract.

On receipt of intimation from the Bank of the acceptance of his/their tender, the

successful tenderer shall be bound to implement the contract and within fourteen days thereof. The successful tenderer shall sign an agreement in accordance with the draft agreement and the Schedule of Conditions but the written acceptance by the Reserve Bank of India of a tender will constitute a binding contract between the Reserve Bank of India and the person so tendering, whether such formal agreement is or is not subsequently executed.

3.11.2 All compensation or other sums of money payable by the Contractor to the Employer under the terms of this Contract may be deducted from the security deposit, if the amount so permits unless the contractor deposits such amounts in cash within ten days of issue of demand notice by the Bank.

3.11.3 (a) **Performance Bank Guarantee (PBG) as security deposit for completion period:** On award of the work, the successful tenderer shall furnish an amount equal to **10% (Ten percent)** of the contract value in the form of a Bank Guarantee (BG) from any scheduled Bank in the form prescribed by the Bank as per Annexure towards security deposit for the due fulfilment of the contract. This Performance Bank Guarantee (PBG) shall be initially valid for a period of contract duration plus three (3) months and shall be suitably extended till final completion of the work plus three (3) months in case of extension of contract period. The Bank Guarantee towards the Earnest Money Deposit (EMD) furnished at the time of submission of tender will be returned thereafter. Such Performance Bank Guarantee (PBG) should be submitted to the Bank within 15 days of the issue of work order.

If the tenderer fails to furnish the Performance Bank Guarantee within stipulated time period, their tender is liable to be cancelled and the EMD deposited shall be enforced without prejudice for further loss or damage.

The Bank Guarantee towards EMD shall be suitably extended, if necessary, the successful tenderer till the date fixed by the Bank for furnishing the PBG towards security deposit for the due fulfilment of the contract.

(b) **Bank Guarantee towards defect liability period and CAMC (ie. Comprehensive Annual Maintenance Contract) period:**

After completion of the work, validity of PBG may be extended till one year from the date of Virtual completion or the successful tenderer shall furnish an amount equal to 10% (Ten percent) of the contract value in the form of BG (Bank Guarantee) from any schedule Bank in the form prescribed by the Bank as per Annex towards Security

Deposit for the due fulfilment of the terms and obligations of the DLP and CAMC contract.

This 10% BG should be initially valid for a period of one year from the date of Virtual completion and after that it shall be further extended for a reduced amount equal to 10% of the contract value for due fulfilment of the CAMC contract condition for a further period of 9 years.

The Bank reserves the right to enforce the Bank Guarantee in case of unsatisfactory performance of the terms, conditions of DLP and CAMC set out in the tender at any time during the currency of committed period of 10 years.

3.12 Terms of Payment: The payment for the works to be executed under this contract shall be made as follows subject statutory deductions. No variation in the mode of payment will be acceptable.

- 1) 60% of the quoted rates (for item No.1 in Price bid) after receipt of the material at site and on submission of the following documents:
 - a) Manufacturer's Inspection and Test Certificates
 - b) Contractor's Certificate that all components, parts, sub systems, consumables etc. for successful installation, commissioning and testing of the systems including maintenance have been received at site in good condition and if any shortfall is noticed during installation, commissioning and testing they will be supplied free to the Bank.
 - c) Policies of insurance covering all the risk during transit, storage, installation, commissioning & handing over including third party liabilities as per e-Tender conditions.
- 2) Balance 25% of the quoted rates against erection and testing.
- 3) Balance 15% of the quoted rates after commissioning and handing over of the entire system and submission of BG as per clause 3.11.

3.13 Taxes and Subsidy

3.13.1 The prices quoted shall include all applicable taxes, custom duty, excise duty, local levies; works contract tax, service tax, Goods and Services Tax (GST) etc. as imposed by Central/State Government/ Local Bodies. If the Tenderer fails to include such taxes and duties in the tender, no claim thereof will be entertained by the Bank afterwards. Statutory deductions like income tax etc. as applicable shall be made at source and a certificate for the same will be issued to the contractor. Bank doesn't intend to avail any subsidy for this project. Therefore, the prices are to be quoted accordingly.

3.14 Insurance

The contractor shall, within 14 days from the date of work order, insure the work at his cost and keep them insured until the virtual completion of the work against loss or damage by fire with an office. The insurance policies shall be in the joint names of the employer and the contractor (**the name of the former i.e. RBI being placed first in the policy**) for the full amount of the contract. Such policy shall cover the property of the "Employer" only. The contractor shall deposit the policy and receipts for the premium with the employer within twenty-one days from the commencement of the works. In default of the contractor, insuring as provided above, the employer may so insure the works and may deduct the premium paid from any moneys due, penalty etc., or which may become due to the Contractor without prejudice to the other rights of the Employer in respect of such default. In case it becomes necessary to suspend the works, the Contractor shall as soon as the claim under the policy is settled, or the work reinstated by the Insurance Office, should they elect to do so, proceed with all due diligence with the completion of the works in same manner as though the fire had not occurred and in all respects under the same conditions of Contract. The Contractor in case of rebuilding or reinstatement after fire shall be entitled to such extension of time for completion as deems fit.

The contractor shall take all insurances at his cost to cover all kinds of risks from the time the equipment's/materials leave the manufacturer's works till handing over the said system to the Bank, in the joint names of the Bank and the contractor and it shall cover the following risks.

- **Contractor's All Risk Policy for the full Contract Value, including Earthquake and fire Risk. Workmen compensation policy for all the workmen of the contractor deployed at site.**
- **Third party liability policy as per following details:**
 - a. **For injury to person – ₹.2 Lakhs per person per accident**
 - b. **For damage to property - ₹. 5 Lakh per accident**

Subject to overall ceiling of Rs 10 Lakh for each of the above third-party policy.

Note: These policies shall be valid till the completion of the work & in the joint name of RBI with **RBI's name being the first one**. If the contractor does not provide these policies, the Bank reserves the right to take the above insurance policies themselves and recover the cost thereof from the bill of the contractor or any other action.

3.15 Completion Period

3.15.1 Time allowed for carrying out the work, as mentioned in the Memorandum, shall be strictly observed by the Contractor and it shall be reckoned from the 14th day after written order to commence the work is issued.

3.15.2 Damages for non-completion

The work shall throughout the stipulated period of the contract be preceded with all the diligence and if the contractor fails to complete the work within the specified

period, he shall be liable to pay liquidated damages as defined in "Appendix herein before referred to" of the contract at the rate **0.25% of estimated cost** per week for the period during which the said works shall so remain incomplete subject to a maximum of **10% of the contract amount** and the Employer may deduct such damages from any money due to the Contractor.

- 3.15.3 The contractor shall submit a **Bar Chart** for completion of the work within the contractual completion period from the tenth day of letter of award of work. Such chart shall include all activities like the date of supply of material at site, item wise completion of work etc., and obtain the approval of the Bank.
- 3.15.4 Bank will provide storage space within the compound of the building. However, the responsibility and safety of the materials stored will be with the contractor. No accommodation will be provided for any worker by the Bank.

3.16 Warranty/ Defects Liability Period.

(a) The entire system shall be warranted against any manufacturing/design/ installation defects etc. for a **minimum period of one year from the date of handing over**. During this period any defect observed in the system shall be **rectified within 2 days** of the observation without any additional cost to the Bank.

(b) Supply and replacement of all spares, consumables and parts required for smooth operation and serviceability of the system shall be the responsibility of the contractor during this period. In this respect the contractor shall maintain sufficient spares/consumables for immediate replacement of defective / damaged part during day-to-day routine maintenance / breakdown maintenance. Cost of these spares and any other spares which may be required during maintenance is deemed to be included in the rates quoted by the contractor. The periodicity of service shall be monthly or more depending upon the weather conditions.

(c) Penalty for delay in rectification of fault during DLP:

There will be a penalty of ₹.1000/- per day subject to maximum of 50% of the annual maintenance charges, if the defect in the system is not rectified within the period of 2 days during the DLP period. Any penalty during the DLP shall be recovered from any dues payable to the contractor or invoke from the bank guarantee.

- 3.16.1 PV modules used in solar power systems / systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of **25 years**.

3.16.2 Penalty for Reduced Generation during initial 5 years:

As mentioned under the foregoing paragraphs, the successful tenderer is required to commit a guaranteed average annualized energy of specified KWH per year at synchronization point. Failure to do so will make the contractor liable to pay compensation at double the rate of the prevailing tariff of Electricity supply Agency for shortfall of every KWH or part thereof of the power generated.

Penalty shall be derived as per the following formula:

Actual output for the year under reference = A (KWH)
 Guaranteed output of the system as per the contract = B (KWH)
 Compensation to be paid to the Bank in case of reduced generation (Rs)
 = (B-A) X (Tariff X 2)

3.17. **Comprehensive All Inclusive Annual Maintenance Contract (CAMC) after DLP period**

(a) The tenderers shall quote their charges separately for comprehensive annual maintenance service of complete system as per schedule of quantities which will be applicable after one year of defect liability period (DLP). The rates shall also include the charges for the insurance of the workmen for carrying out the above job and GST for maintenance shall be quoted in respective column in the BOQ.

(b) The system shall be inspected, upkeep/serviced periodically. The periodicity shall be **monthly or earlier** depending upon the weather conditions.

(c) The charges for comprehensive annual maintenance service shall include replacement of any part of the system, including all required spares, consumables etc during service contract period. Any defects in the system/sub-assemblies, found within the AMC period, shall be rectified/ replaced by the tenderer without any additional cost to the Bank.

(d) Penalty for delay in rectification during CAMC:

During the comprehensive annual maintenance service period (after DLP period), any fault in the system shall be rectified within 2 days of receipt of intimation of the defect in the system. The quoted rates shall, therefore, take into account all the cost, including travel cost from the nearest service station. There will be a penalty of ₹.1000/- per day subject to maximum of 50% of the annual maintenance charges, if the defect in the system is not rectified within the period of 2 days during the AMC period as stated above. Any penalty during the DLP shall be recovered from any dues payable to the contractor or invoke from the bank guarantee.

(e) Payment of service charges during comprehensive annual maintenance service (CAMC):

The payment during the CAMC period shall be **made on Quarterly basis** on rendering satisfactory service.

(f) The service contract shall be renewed for a further additional period of at least 8 years after the initial annual service contact period of one year after one-year warranty. While renewing the contract the new contract amount will be arrived at based on following formula:

$A_C = A_P [(15+60x(EPI_C/EPI_P)+25x(CPI_C/CPI_P))] \times 1/100$	
A_C	The contract amount for the current year.
A_P	The contract amount for the previous year.
EPI_C	Wholesale Price Index for Electrical Products 6 months prior to the

	commencement date of contract for the current year.
EPI _P	Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the previous year.
CPI _C	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the current year.
CPI _P	Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the previous year.

The successful tenderer shall enter into an agreement for comprehensive annual maintenance contract of the system with the Bank.

3.18 Packing and Dispatch

The equipment shall be properly and securely packed in boxes and multiple handling and transportation by sea/ air / rail / road under Indian conditions. All equipment/components shall be delivered at MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ Staff Quarters at Nagpur.

3.19 Signing of Contract Agreement

- 3.19.1 The General instructions to the tenderers and special conditions, conditions hereinbefore referred to Conditions of Contract and Technical Specifications and drawings enclosed with the tender documents, the subsequent correspondence exchanged between the Bank and the tenderer and the work order placed shall be the basis of the final contract to be entered into with the successful tenderer.
- 3.19.2 The Tenderer shall go through the terms and conditions given in the general conditions of contract, special conditions herewith and his offer shall be strictly in line with the terms specified therein. No deviation from the terms and conditions specified shall be acceptable. Each page of the tender documents should be signed for his/their having acquainted himself/themselves in the general conditions of contract, Technical specifications, etc.
- 3.19.3 The tender submitted on behalf of a firm shall be signed by all the partners of the firm or a partner who has the necessary authority on behalf of the firm to enter into the proposed contract. Otherwise the tender may be rejected.
- 3.19.4 On receipt of intimation from the Bank of the acceptance of his/their tender, the successful tenderer shall be bound to implement the Contract and within fourteen days thereof, the successful tenderer shall sign an agreement in accordance with the draft agreement. Notwithstanding the signing of the agreement the written acceptance by the Reserve Bank of India of a tender in itself will constitute a

binding agreement between the Reserve Bank of India and the person so tendering, whether such contract is or is not subsequently executed.

- 3.19.5 The contractor shall not assign the contract. He shall not sublet any portion of the contract except with the written consent of the Employer. In case of breach of these conditions, the Employer may serve a notice in writing on the Contractor rescinding the contract whereupon the security deposit shall stand forfeited to the Employer, without prejudice to his other remedies against the Contractor

3.20 **Sufficiency of Schedule of Quantities**

- 3.20.1 The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and/or the Schedule of Rates and Prices which rates and prices shall cover all his obligations under the Contract, and all matters and things necessary for the proper completion of the works.

- 3.20.2 The quantities in the schedule of quantities approximately indicate the total extent of work but may vary to any extent and even be omitted thus altering the aggregate value of the contract.

3.21 **Language**

The Tender including all labels in drawings, documents, catalogues etc. shall be in English.

3.22 **Right to Accept Part Tender**

The Bank reserves the right to accept the tender either in whole or in part at the same prices quoted by the Tenderer.

3.23 **Evaluation of Tender**

Tenders will be evaluated based on **Total owing cost (TOC)** considering capital cost of the system and taking into account the effect of comprehensive annual maintenance service charges (CAMC) for 9 years after one year of DLP.

Tenders will, therefore, be evaluated based on the total owning cost for 10 years which will be arrived at as under:

Total owing cost (TOC)

= Quoted capital cost + NPV of service contract charges for 9 years

= Quoted capital cost + Quoted charges for Comprehensive maintenance service contract per annum x Multiplying Factor (MF) **(MF = 7.0476)**

For calculating the NPV of service contract charges, the following factors have been applied:

(a)	Increase (Escalation)	5% per annum
(b)	Discount factor	8% per annum
(c)	Period of contract	10 years from the date of handing over of the system.
(d)	Payment terms for annual maintenance contract.	Quarterly payment after satisfactory completion of service

Minimum Base Rate for Comprehensive AMC

Minimum Base Rate for Comprehensive AMC is 2% (Two) of total capital cost. In case, the tenderer quotes the rates for comprehensive AMC lower than 2% (Two) of the quoted capital cost, then the 2% (Two) of the quoted capital cost will be considered as AMC for calculation of Total Cost of Ownership.

Note: Notwithstanding the above, the Bank shall pay only the quoted rate of the AMC during the currency of the committed contract period subject to renewal formulae indicated in the tender.

3.24 Pre-dispatch Inspection

Before dispatching the equipment to site, the equipment, may be inspected at the discretion of the Bank and tested for various parameters by the Bank's Engineers at the manufacturer's works and then cleared for shipment. This will however, not in any way absolve the contractor of his responsibility for the continued performance of the system/components after erection & commissioning at the designated site during the period of defects liability.

3.25 Drawings

All required drawings for equipment lay out viz: layout of PV panels, interconnection with Power conditioning units etc., should be prepared by the tenderer and submitted to the Bank's engineer for approval before commencement of work.

3.26 Other Issues

The Contractor shall carry out all the work strictly in accordance with the approved drawing, detailed specifications and instructions of the Bank's engineer. If in the opinion of the Bank's engineer/consultant, nominal changes have to be made to suit the site condition and with the prior approval in writing of the Employer, the Contractor shall carry out the same without any extra charge.

- 3.27 The tenderers are requested to examine the drawings, inspect the site of the work, and acquaint themselves with all local conditions, means of access to the work, nature of the work etc. before submission of tender.
- 3.28 A Schedule of Probable Quantities in respect of each work and Specifications accompany these Special Conditions. The Schedule of Probable Quantities is liable to alteration by omissions, deductions or additions at the discretion of the Employer. Each tender should contain not only the rates but also the value of each item of work entered in a separate column and all the items should be totalled in order to show the aggregate value of the entire tender.
- 3.29 The rates quoted in the tender shall include all charges for scaffoldings, watching and lighting by night as well as day including Sundays and holidays, protection of all other erections, matters or things and the Contractor shall take down and remove any or all such centring, scaffolding etc. as occasion shall require or when ordered so as to do, and fully reinstate and make good all matters and things disturbed during the execution of work and to the satisfaction of the Bank.
- 3.30 The contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of delays may be, including delays arising out of modifications to the work entrusted to him or in any sub-contract connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such works. The Employer does not accept liability for any sum besides the tender amount, subject to such variations as are provided for herein.
- 3.31 The successful tenderer is bound to carry out all items of work necessary for completion of the job even though such items are not included in the quantities and rates without additional cost to the Bank. Schedule of instruction in respect of such additional items and their quantities will be issued in writing by the Bank.
- 3.32 **Minimum wages/ Gratuity act / contract labour Act to the workmen:** The contractor shall ensure that minimum wages/ gratuity as per statutory requirement are paid to all the workmen.

3.33 **Labour License:** The contractor shall adhere to various provisions of the Contract Labour (Regulation & Abolition) Act 1970, if applicable under the said contract, and fulfil all the statutory requirements.

3.34 The successful tenderer must co-operate with the other contractors appointed by the Bank so that the work shall proceed smoothly with the least possible delay.

Witness

Address

Date

Signature of tenderer

Address

Date

Section (IV)
Safety Code

1. First-aid appliances, including adequate supply of sterilized dressings and cotton wool, shall be maintained in a readily accessible place.
2. The injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.
3. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from ground.
4. No portable single ladder shall be over 8 meters in length, the width between the side rails not less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder.
5. The excavated material shall not be placed within 1.5 meters of the edge of the trench or half of the depth of the trench, whichever is more. All trenches and excavations shall be provided with necessary minimum height shall be one meter.
6. Every opening in the floor of a building or a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be one meter.
7. No floor, roof or other part of the structure shall be so over-loaded with debris or materials as to render it unsafe.
8. Workers employed on mixing and handling material such as asphalt, cement, mortar, or concrete and lime mortar shall be provided with protective footwear and rubber hand-gloves.
9. Those engaged in welding works shall be provided with welder's protective eye-shields and gloves.
10. No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
11. Suitable face masks should be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.
12. Hoisting machines and tackles used in the work, including their attachments, anchorage and supports shall be in perfect condition.
13. The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects.

FIRE SAFETY

- i. Cutting / drilling machine and other electrically operated equipments used at site shall be plugged into correctly rated electrical outlets.
- ii. Only ISI marked 3 pin plug and other appliances and equipments shall be used.
- iii. Electrical power cables/wires used shall not have any joints and shall be properly rated.
- iv. All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.
- v. Before commencing the welding work for the first time on any day, fire section shall be informed and only after the site inspection by the Fire officers/Personnel, work shall be started.
- vi. Two buckets of water and sand shall be kept in an easily accessible area on the site.
- vii. Fire extinguishers recommended and issued by fire officers shall be kept on the site.
- viii. Used paint drums shall be stored in specified store only after closing them properly.
- ix. Personal protective equipments such as safety shoes, hand gloves, welder's mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.
- x. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10' from Ground level.
- xi. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.
- xii. Both the staircase doors shall be normally kept closed.
- xiii. None of the fire extinguishers shall be removed/shifted from its designated location.
- xiv. Power supply shall be switched off from the mains when equipment is not in use.
- xv. Wood-shavings and saw-dust generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
- xvi. Any debris generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
- xvii. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

Place:

Date:

Seal & Signature of the tenderer.

Section-V
The Conditions Hereinbefore Referred To

1. In constructing these conditions, the specification, schedule of quantities and Contract Agreement, the following words shall have the meaning herein assigned to them except where subject or context otherwise requires.

a) "Employer"	Shall mean the Reserve Bank of India and shall include its assignees and successors.
b) In the case of company	"Contractor shall mean _____ a company incorporated under _____ and having its registered office at _____ and shall include its successors and assigns.
c) "Site"	Shall mean the site of the contract works including any building and erection thereon and any other land (inclusively) as aforesaid allotted by the Employer for the Contractor's use.
d) "This Contract"	Shall mean the Article of Agreement, the special conditions, the conditions, the Appendix, the schedule of quantities and specifications attached hereto and duly signed.
e) "Notice in writing"	Shall mean a notice in written, typed or printed or written notice" characters sent (unless delivered personally otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
f) "Act of Insolvency"	Shall mean any Act of insolvency as defined by the Presidency Town Insolvency Act, or the provincial insolvency Act or any Act amending such original Act.

g) "Net Prices"

If in arriving at the contract amount the Contractor shall have added to or deducted from the total of items in the Tender any sum, either as a percentage or otherwise, then net price of any item in their tender shall be the sum arrived at by adding to or deducting from the actual figures appearing in the Tender as the price of that the item a similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor the total amount of the any Prime Cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or account shall be held to mean rates or prices so arrived at.

h) "The works"

Shall mean Tender for design, supply, installation, testing and commissioning (DSITC) of 160 KWp **(4 Nos X 15 KWp + 2 Nos. X 50 KWp) Grid** Interactive SPV based Solar Power System in MOB, AOB, Bank's ALSQ and BTOQ at Nagpur

2. **Scope of Contract**: The contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions of and to the satisfaction of the Bank's Engineer. The Bank's Engineer may in his absolute discretion and from time-to-time issue further drawings and/or written instructions, details, direction and explanations which are hereafter collectively referred to as "Bank's Engineer's instruction in regard to":

- a) The variations or modifications of the design, quality or works or the addition or omission or substitutions of any work.
- b) Any discrepancy in the Drawing or between the Schedule of Quantities and/or Drawing and/or specifications.
- c) The removal from the site of any materials brought thereon by the contractor and the substitution of any other material therefor.
- d) The removal and/or re-execution of any works executed by the contractor.
- e) The dismissal from the works of any persons employed thereupon.
- f) The opening up for inspections of any work covered up.
- g) The amending and making good of any defects under clause 20 hereof.

The contractor shall forthwith comply with and duly execute any work comprised in such Bank's Engineer's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the works by the Bank's Engineer shall, if involving a variation, be confirmed in writing by the Contractor within seven days, such shall be deemed to be Employer's instructions

within the scope of the Contract.

The contractor shall submit a statement of variations giving quantity and rates duly supported by analysis of rates, vouchers etc. The rates on scrutiny and final acceptance by the Employer shall form a supplementary tender. The Employer shall not be liable for payment of such variations until these statements are sanctioned by him.

3. The Contract shall be executed in triplicate and the Bank's Engineer, the Employer and the Contractor shall be entitled to one executed copy each for his use. The contractor shall prepare the line diagram, system configuration drawing and Lay out plan of the site for carrying out the work. Before the issue of the final certificate to the Contractor he shall submit to the Bank's Engineer all Drawings and Specifications.
4. The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the Drawings, Schedule of Quantities and specifications taken together, whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Schedule of quantities and Specifications, he shall immediately and in writing refer the same to the Bank's Engineer, who shall decide which is to be followed.
5. **Authorities, notices and patents:** The Contractor shall conform to the provisions of any Act of the Legislature relating to the works, and to the regulations and bye-laws of any authority, and of any water, electricity supply and other companies and/or authorities with whose system the structure is proposed to be connected, and shall, before making any variations from the Drawings or Specifications that may be necessitated by so conforming, give to the architect written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case the Contractor shall not within ten days receive such instructions, he shall proceed with the work conforming to the provisions, regulations, or bye-laws in question, and any variation so necessitated shall be dealt with under clause 17 hereof.

The contractor shall bring to the attention of the Employer all notices required by the said Acts, regulations or bye-laws to be given to any authority and pay to such authority or to any public office all fees that may be properly chargeable-in respect of the works and lodge the receipts with the Employer.

The Contractor shall indemnify the Employer against all claims in respect of patent rights and shall defend all actions arising from such claims 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.

6. **Setting out of work**: The contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions levels, dimensions and alignment of all parts thereof. If at any time any error in this respect shall appear during the progress of the works or within a period of one year from the completion of the works, the Contractor shall, if so required, at his own expense rectify such error to the satisfaction of the Bank's Engineer.
7. **Materials and Workmanship to conform to description**: All materials and workmanship shall so far as procurable be of the respective kinds described in the Schedule of Quantities and/or specifications and in accordance with the contract and the Contractor shall furnish to the Employer with all invoices, accounts, receipts and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out any test of any materials.
8. **Contractor's superintendence and representative on the works**: The Contractor shall give all necessary personal superintendence during the execution of the works and so long thereafter as the Employer may consider necessary until the expiration of the "Defects Liability Period" stated in the tender. The contractor shall, also during the whole time the works are in progress employ a competent representative who shall be constantly in attendance at the works while the men are to work. Any directions, explanations, instructions or notice given by the Bank's Engineer to such representative shall be held to be given to the Contractor.
9. **Dismissal of workmen**: The Contractor shall on the request of the Bank's Engineer immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Bank's Engineer, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Bank's Engineer.
10. **Access to works**: The Employer, shall at all reasonable times, have free access to the works and/or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the Employer necessary for Inspections and examination and test of the materials and workmanship. No person is authorized by the Employer except the representatives of public authorities shall be allowed on the works at any time.
11. **Bank's Engineer**: The term Bank's Engineer shall mean the person appointed and paid by the Employer to inspect the works. The Contractor shall afford the Bank's Engineer every facility and assistance for inspecting the works and materials and for checking and measuring time and materials.

The Bank's Engineer, or the Employer shall have power to give notice to the Contractor or to his representative of non-approval or any work or materials and such work shall be suspended, or the use of such materials shall be discontinued. The work

will from time to time be examined by the Banks Engineer but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at a stage of the works or after the same is completed. Subject to the limitations of this clause the Contractor shall take instructions only from the Bank's Engineer.

12. **Assignment and Subletting**: The whole of the works included in the Contract shall be executed by the Contractor and the contractor shall not directly or indirectly transfer, assign or under-let the Contract or any part share thereof or any interest therein without the prior written consent of the Employer and not undertaking shall relieve the Contractor from the full and entire responsibility of the Contract or from active superintendence of the works during their progress.

13. No alteration, omission or variation shall vitiate this contract but in case the Bank's Engineer thinks proper at any time during the progress of the works to make any alterations in, or addition to, or omissions from the works or any alteration in the kind of quality of the materials to be used therein and shall give notice thereof in writing under his hand to the Contractor, the Contractor shall alter, add to, or omit from, as the case may be, in accordance with such notice, but the contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the Contract. Stipulations, specifications or Contract Drawings without the previous consent in writing of the Employer and the value of such extras alterations, additions or omission shall, in all cases, be determined by the Employer in accordance with the provisions of Clause 17 hereof, and the same shall be added to, or deducted from the Contract Amount, as the case may be accordingly.

14. **Schedule of Quantities**: The Schedule of quantities, unless otherwise stated shall be deemed to have been prepared in accordance with the Standard Method of Measurement.

Any error in description or in quantity or in omission of items from the schedule of quantities shall not vitiate this contract but shall be rectified and the value thereof, as ascertained under Clause 17 hereof, shall be added to, or deducted from the Contract Amount (as the case may be) provided that no rectification of errors, if any, shall be allowed in the Contractor's schedule of rates.

15. **Sufficiency of Schedule of Quantities**: The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and/or the schedule of rates and prices which rates and prices shall cover all his obligations under the contract, and all matters and things necessary for the proper completion of the works.

16. **Measurement of works**: The Bank's Engineer may, from time to time, intimate to the

contractor that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified agent to assist Assistant Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

Should the Contractor not attend or neglect or omit to send such agent then the measurement taken by the Bank's Engineer or a person approved by him shall be taken to be correct measurement of the works. Such measurements shall be taken in accordance with the Mode of Measurements detailed in the Specifications.

The Contractor or his Agent may at the time of measurement take such notes and measurement as he may requires.

All authorised extra works, omissions and all variations made with the prior approval in writing of Employer shall be included in such measurements.

17. **Prices for extra** : The Contractor may, when authorised and shall, when directed, in writing by the Employer, add to, omit from or vary the works shown upon the drawings, or described in the specification, or included in the schedule of Quantities, but the contractor shall make no addition, omission or variation without such authorization or direction. A verbal authority or direction by the Bank's Engineer shall, if confirmed by them in writing within seven days, be deemed to have been given in writing.

No claim for an extra shall be allowed unless it shall have been executed under provisions of clause above hereof with the concurrence of the Employer herein mentioned. Any such extra in herein referred to as authorized and shall be made in accordance with the following provisions.

- (a) (i) The net rates or prices in the original tender shall determine the valuation of the extra work where such extra work in similar character and executed under conditions as the work priced therein.
- (ii) Rates for all items, wherever possible should be derived out of the rates given in the priced Schedule of Quantities.
- (b) The net prices of the original tender shall determine the value of items omitted provided if omissions vary the conditions under which any remaining items of works are carried out, the prices for the same shall be valued under sub-clause(c) hereof.
- (c) Where the extra works are not of similar character and/or quoted under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omissions or additions relative the amount of the whole of the Contract works or to any part thereof shall be such that in the opinion of the Bank's engineer, the net rate or price contained in the priced Schedule of Quantities or tender or for any item of the works involves loss or expenses beyond that reasonably contemplated by the contractor or is by reason of such omission or addition

rendered unreasonable or inapplicable, the Bank's Engineer shall fix such other rate or price as in the circumstances he shall think reasonable and proper, with the prior approval in writing of the Employer.

- (d) Where extra work cannot be properly measured or valued, the Contractor shall be allowed day work prices as the net rates stated in the tender or the Priced Schedule or Quantities or, if not so stated, then in accordance with the local day work rates and wages for the district provided that in either case vouchers specifying the daily time (the workmen's names) and materials employed be delivered for verification to the Bank's Engineer at or before the end of the week following that in which the work has been executed plus 15% towards establishment charges, contractor's overhead and profits.

The measurement and valuation in respect of the Contract shall be completed within the "period of final measurements" stated in the tender or if not stated then within six months of the completion of the Contract works as defined in Clause 21 hereof.

18. Unfixed materials when taken into account to be the property of the Employer

Where in any certificates (of which the Contractor has received payment) the Bank's Engineer has included the value of any unfixed materials included for and/or placed on or adjacent to the works such materials shall become the property of the Employer and they shall not be removed except for use upon the works, without the written authority of the Employer. The Contractor shall be liable for any loss of, or damage to, such materials.

19. **Removal of improper work** : The Employer shall, during the progress of the works, have power to order in writing from time to time the removal from the works within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Bank's Engineer are not in accordance with the Specifications, the substitutions of proper materials, and the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the drawings & specifications or instructions and the contractor shall forthwith carry out such order at his own cost. In case of default on the part of Contractor to carry out such order, the Employer shall have the power to employ any pay other persons to carry out the same; and all expenses consequent thereon, or incidental thereto, shall be borne by the Contractor, or may be deducted by the Employer from any moneys due, or that may become due, to the Contractor.

20. **Defects after virtual completion** : Any defect, shrinkage, settlement or other fault which may appear within the "Defects Liability Period" stated in the tender, or, if none stated them within twelve months after the virtual completion of the works, arising in the opinion of the Employer from materials of workmanship not in accordance with the contract, shall upon the direction in writing of the Employer, and within such

reasonable time as shall be specified therein, be amended and made good by the Contractor, at his own cost and in case of default the Employer may employ and pay other persons to amend and make good such defects, shrinkage settlements or other faults, and all damages loss and expenses consequent thereon are incidental thereto shall be made good and borne by the Employer or may be deducted by the Employer, upon the Bank's Engineer's Certificate in writing, from any money due or that may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor deduct from any money due to the Contractor a sum, to be determined by the Employer equivalent to the cost of amending such work and in the event of the amount retained under clause 32 hereof being insufficient, recover the balance from the Contractor, together with any expenses the Employer may have incurred in connection therewith. Should any defective work have been done or materials supplied by any sub-contractor employed on the works who has been nominated as provided under clause 12 and 22 hereof, the contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provision of this clause 2 hereof. The contractor shall remain liable under the provisions of this clause the signing of any certificate or the passing of any accounts by the Employer.

21. **Certificate of virtual completion and defects liability period:** The works shall not be considered as completed until the Bank's Engineer has certified in writing that they have been virtually completed. The defects liability period shall commence from the date of such certificates.
22. **Nominated Sub-Contractor** : All Specialists, Merchants, Tradesmen and others executing any work of supplying and fixing any goods for which the prime cost prices or provisional sums are included in the Schedule of Quantities and/or Specifications who may be nominated or selected by the Employer or hereby declared to be sub-contractors employed by the contractor and are herein referred to as nominated sub-contractors.

No nominated sub-contractors shall be employed on or in connection with the works against the Contractor shall make reasonable objection are (save where the Architect and the Contractor shall otherwise agree) who will not enter into contract providing.

- (a) That the nominated sub-contractor shall indemnify the contractor against the same obligation in respect of the sub-contract as the contractor is under in respect of this contract.
- (b) That the nominated sub-contractor shall indemnify the contractor against claims in respect of any negligence by the sub-contractors his servants or agents or any misuse by him or them or any scaffolding or other plant, the property of the Contractor or under any Workmen's Compensation Act in force.
- (c) Payment shall be made to the nominated sub-contractor within fourteen days of his receipt of the Employer's Certificate provided that before any Certificate is issued the Contractor shall upon request furnish to the Bank proof that all

nominated sub-contractors accounts included in previous certificates have been duly discharged; in default whereof the Employer may pay the same upon a Certificate of the Bank and deduct the amount thereof from any sums due to the Contractor. The exercise of this power shall not create private of contract as between Employer and Sub-Contractor.

23. **Other persons employed by Employer:** The Employer reserves the right to use premises and any portion of the site for the execution of any work not included in this Contract which it may desire to have carried out by other persons, and the Contractor shall allow all reasonable facilities for the execution of such work but shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Employer. Such work shall be carried out in such manner as not to impede the progress of the works included in the Contract and the Contractor shall not be responsible for any damage or delay which may happen to or occasioned by such work.
24. **Insurance in respect of damage to person and property:** The Contractor shall be responsible for all injury to persons, animals or things, and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any nominated sub-contractor or any employee of either, whether such injury or damage arises from carelessness accident or any other clause whatever in any connected with the carrying out of this Contract. This clause shall be held to include inter alia, any damage to buildings, whether immediately adjacent or otherwise, and any damage to road, streets, foot-paths, bridges or ways as well as damage caused to the buildings and works forming the subject of this contract by frost, rain, wind or other inclemency of weather. The Contractor shall indemnify the Employer and hold it harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of any legislature or otherwise and also in respect of any award or compensation or damages consequent upon such claim.

The Contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver up the whole of the Contract works complete to and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

An insurance policy covering third party liability shall be taken by the contractor to cover the loss/disablement of human life (persons not belonging to the contractor). This shall also cover the risk of damages to other's materials/equipment/properties including those, if any of the banks during construction/erection/commissioning of the said contract work at site. The value of third party liability for compensation for loss of human life or full /partial disablement shall be of required statutory value for full and partial disablement and shall nevertheless cover such compensation as may be

awarded by a court of law. Cover for damage to other's equipment/property shall be as approved by the bank. The sub-contractors of the contractor shall not be holders or beneficiaries in the policy nor shall they be named in the policy. The bank shall be the principal holder of the policy along with the contractor. The bank reserves the exclusive right to assign the policy.

The Contractor shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of anything which may arise in respect of the works or in consequences thereof and shall at his own expenses arrange to effect and maintain, until the virtual completion of the contract, with an approved office a policy of insurance in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during the currency of this contract. The Contractor shall also similarly indemnify the Employer, against all claims which may be made upon the Employer whether under the Workmen's Compensation Act or any other status in force during the currency of this contract or at common law in respect of any employee of the Contractor or any Sub-Contractor and shall at his own expenses effect and maintain, in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during currency of the Contract.

The Contractor shall be responsible for any liability which may be executed from the Insurance Policies above referred to and also for all other damage to any person, animal or property arising out of the incidental to the negligent or defective carrying out of this Contract transit, storage, erection, testing & commissioning policy. He shall also indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damages arising therefrom.

The Employer shall be entitled to deduct the amount of any damage, compensation, costs, charges and expense arising of accruing from or in respect of any such claims or damage from any or all sums due or to become due to the Contractor without prejudice to the Employer's other rights in respect thereof.

25. **Date of commencement and completion:** The Contractor shall be allowed admittance to the site on "Date of Commencement" stated in the Appendix hereto, or each later date as may be specified by the Employer and he shall thereupon and forthwith begin the works and shall regularly proceed with and complete the same (except such painting or other decorative work as the bank may desire to delay) or before the "Date of Completion" stated in the Appendix subject nevertheless to provisions for extension of time hereinafter contained.

26. **Damages for non-completion:** If the Contractor fails to complete the works by the

date stated in the Appendix or within any extended time under Clause 27 and 20 here the Contractor shall pay the Employer the sum named in the Appendix as " Liquidated Damages" for the period during which the said works shall so remain incomplete and the Employer may deduct such damages from any money due to the Contractor.

27. **Delay and extension of time:** If in the opinion of the Employer the works be delayed(a) by force major 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 or public authorities arising otherwise than through contractor's own default or (d) by the works or delays of other contractor or Tradesmen engaged or nominated by the Employer and not referred to in the schedule of quantities and/or specifications or (e) by reasons of Bank's Engineer instruction as per clause 17 hereof (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Bank for which he shall have specifically applied in writing or (h) from other causes which the Bank may certify as beyond the control of contractor or (I) in the event, the value of the work exceed the value of the Priced Schedule of Quantities owing to variation, the Bank may make a fair and reasonable extension of time for completion shall as soon as may be given written notice thereof to the bank but the Contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may reasonably has required to the satisfaction of Bank to proceed with work.

28. **Contractor's failure to comply with Employers instruction:** If the Contractor after receipt of written notice from the Employer requiring compliance within 10 days fails to comply with such further drawings and/or Bank's instructions the Employer may employ and pay other persons to execute any such work whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the Contractor by the Employer as a debt or may be deducted by him from any moneys due to the Contractor.

29. **Termination of Contract by the Employer:** If the Contractor being an individual or a firm commits any "act of insolvency" or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily or subject to the supervisions of the court and the Official Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall be unable within seven days after notice to him requiring him to do so to show the reasonable satisfaction of the Architect that he is able to carry out and fulfill the Contract and to give security therefore, if so required by the Architect.

Or if the Contractor (whether an individual, first or incorporated company shall suffer execution or other process of court attaching property to be issued against the Contractor.

Or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the Contractors.

Or shall assign to sublet this Contract without the consent in writing of the Employer first had and obtained.

Or shall charge or encumber this Contract or any payments due or which may become due to the Contractor hereunder.

- (i) Has abandoned the Contract, or
- (ii) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progresses of the works for fourteen days after receiving from the Bank notice to proceed or
- (iii) Has failed to proceed with the work with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- (iv) Has failed to remove materials from the site or to pull down and replace work for seven days receiving from the Bank written notice that the said materials or work were condemned and rejected by the Bank's Engineer under these conditions' or
- (v) Has neglected or failed persistently to observe and perform all of any of the acts, matter or things by the Contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.
- (vi) Or breach of any terms and condition

Then and in any of the said cases the Employer may, notwithstanding any previous waiver, after giving seven days' notice in writing to the Contractor, determine the Contract, the whole of which shall continue in force as fully as if the Contract has not been so determined, and so if the works subsequently execute had been executed by or on behalf of the Contractor. And further, the Employer by his agents or servants may enter upon and taken possession of the works and all plant, tools scaffoldings, sheds, machinery, steam and other power utensils and materials lying upon the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the work or by employing any other Contractor or other person or persons to complete the works, and the Contractor shall not in any way interrupt or do any act matter or thing to prevent or hinder such other contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient the Bank shall give a notice in writing to the Contractor to remove his surplus materials and plant, and should the Contractor fail to do so within a period of fourteen days after receipt thereof by him, the Employer may sell the same by public auction, and give credit to the Contractor for the net amount realized. The employer shall thereafter ascertain

and certify in writing under his hand what of the said plant and materials so taken possessions or by the Employer and the expenses or loss which the Employer shall have been put to in procuring the works to be completed and the amount. If any, owing the Contractor and the amount which shall be so certified shall thereupon be paid by the Employer to the Contractor or by the Contractor to the Employer, as the case may be, and the Certificate of the Bank shall be final and conclusive between the parties.

30. Termination of Contract by Contractor: If this payment of the amount payable by the Employer under Certificate of the Bank's Engineer shall be in arrears and unpaid for thirty days after notice in writing requiring payment of the amount as aforesaid shall have been given by the Contractor to the Employer, or if the Employer interferes with or obstructs the issue of any such Certificate, or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Architect or the Employer or by any injunction or other order of any court of Law, then and in any of the said cases the Contractor shall be in liberty to determine the Contract by notice in writing to the Employer, and he shall be entitled to recover from the Employer, payment for all works executed and for any loss he may sustain upon any plant or materials supplied or purchased or prepared for the purpose or the Contract.

In arriving at the amount of such payment the net rates contained in the Contractor's original Tender shall be followed or where the same may not apply valuation shall be made in accordance with Clause 17 hereof.

31. Certificates and Payments: The Contractor shall be paid by the Employer from time to time by installments under interim Certificate to be issued by the Bank's Engineer on account of the works executed work to the approximate value named in the tender as 'Value of work for Interim Certificate' has been executed in accordance with this Contract, subject, however, to a retention of the percentage of such value named in the tender as "Total Retention Money" after which time the installments shall be up to the full value of the work subsequently so executed and fixed in the building. And when the works have been virtually completed, the Contractor shall be paid by the Employer in accordance with the Certificate to be issued by the Bank's Engineers the sum of money named in the Appendix as "installment after Virtual Completion" being a part of the said Total Retention Money. And the Contractor shall be entitled to the payment of the Final Balance in accordance with the final Certificate at the expiration of the period referred to as 'the Defects liability Period' in the Appendix hereto from the date of virtual completion or as soon as after expiration of such period as the works shall have been finally completed and all defects made good according to the true intent and meaning hereof whichever shall last happen provided always or at or after their completion shall not relive the Contractor from his liability under clause 21 and 36 nor relieve the Contractor of his inability in cases of fraud, dishonesty, or fraudulent

concealment relating to the works or materials or to any matter dealt with in the Certificate and in case of the all defects and insufficiencies in the works or materials which a reasonable examination would not have disclosed.

The Employer shall have power to withhold any Certificate if the works or any parts thereof are not being carried out to his satisfaction.

32. **Delayed Payment:** Any amounts payable by the Employer to the Contractor shall, if not paid within the 'period of honoring Certificates' names in the tender carry interest at the rate named in the tender as the "Rate of interest for delayed payment" from the date upon which sum ought to have been paid by the Employer until the payment.
33. The decision, opinion, direction Certificate (except for payment) with respect to all or any of the matters under Clauses 2(a,b), 4,5, 14, 20 (a,b,c,d and f) hereof (which matters are herein referred to as the excepted matters) shall be final and conclusive and binding on the parties hereto and shall be without appeal. Any other decision, opinion, direction, shall be subject to the right of Arbitration and review under the Clause 35 hereof in the same way in all respects (including the provisions as to opening the reference).
34. **Settlement of disputes by Arbitration:** All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after the completion and whether before or after the determination abandonment or breach of the contract) shall be referred to and settled by the Bank who shall state its decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the Bank with respect to any of the excepted matters shall be final and without appeal as stated in Clause 33 hereof. But if either the Contractor be dissatisfied on any matter on which a decision is taken by the Bank as above, except any of the expected matter the Contractor may within 28 days after receiving notice of such decision give a written notice to the other party requiring that the matters in dispute be arbitrated upon. Such written notice shall specify the matters, which are in dispute or difference of which such written notice has been given. If both the parties agree, a single arbitrator would be appointed for the purpose. In case no agreement could be reached on the appointment of single arbitrator, both the parties will nominate one person each as an arbitrator on their behalf. The two arbitrators nominated by the parties shall nominate one more person to act as third arbitrator or umpire.

The arbitrator or Arbitrators, as the case may be, shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice, save in regard to the excepted matters, referred to in the preceding clause, and to determine all matters to dispute which shall be submitted to arbitration and of which

notice shall have been given as aforesaid.

The arbitrator or Arbitrators, as the case may be, shall make his or their award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle or compromise their dispute or difference, on the parties filing their joint memorandum of the settlement or compromise, the Arbitrator or the Arbitrators as the case may be, shall make an award in terms of such settlement or compromise.

Upon any such reference, the decision on the cost incidental to the reference and Award respectively shall be in the discretion of the arbitrator or Arbitrators as the case may be, who may determine the amount thereof or direct the same to be taxed as between the party and party, and shall direct by whom and to whom and in what manner the same shall be borne and paid.

This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The award of the arbitrator or Arbitrators, as the case may be, shall be final and binding on the parties. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the Arbitrator or Arbitrators, as the case may be, is given, abide by the decision of the Bank. No award of the Arbitrator or Arbitrators, as the case may be, shall relieve the Contractor of his obligations to adhere strictly to the Bank's instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that arbitration under this Clause shall be a condition precedent to any right of action under the Contract.

Right of technical scrutiny of final bill

35. The Employer shall have a right to cause a technical examination of the works and the final bill of the contractor including all supporting vouchers, abstracts, etc. to be made at the time of payment of the final bill. If as a result of this examination of otherwise any sum is found to have been overpaid or over certified it shall be lawful for the employer to recover the sum.

Employer entitled to cover compensation paid to workman

36. If, for any reason, the Employer is obliged, by virtue of the provisions of the Workmen's Compensation Act, 1923, or any statutory modification or re-enactment thereof to pay compensation to a workman employed by the Contractor in execution of the works, the Employer shall be entitled to recover from the

Contractor the amount of compensation so paid, and without prejudice to the rights of the Employer under the said Act. The Employer shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by the Employer shall not be bound to contest any claim made against it under the said Act, except on the written request of the Contractor and upon his giving to the Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

Abandonment of works

37. If at any time after the acceptance of the tender, the Employer shall for any reasons whatsoever not requires the whole or any part of the works to be carried out, the Bank shall give notice in writing to the Contractor who shall have no claim to any payment of compensation or other-wise whatsoever on account of any profit or advantage which he might have derived from the execution of the whole works.

Return of surplus materials

38. Notwithstanding anything to the contrary contained in any or all the clauses of this Contract, where any material for the execution of the Contract is procured with the assistance of the Employer by purchase made under orders or permits or licenses issued by Government, the Contractor shall hold the said materials economically and solely for the purpose of the Contract and not dispose of them without the prior written permission of the Employer and return it to the Employer, if required by the Employer, at the price to be determined by the Bank having due regard to the conditions of the materials, the price to be determined not be exceed the purchase price thereof inclusive of sales tax, octroi and other such levies paid by the Contractor in respect thereof, in the event of breach of the aforesaid condition, the Contractor shall in addition to being liable to action for contravention of the terms of licenses or permit and/or criminal breach of trust, be liable to Employer for all moneys, advantages or profits resulting or which in the usual course would have resulted to his by reason of such breach.

Right of employer to terminate contract in the event of death of Contractor or individual

39. Without prejudice to any of the rights or remedies under this Contract, if the Contractor, being an individual, dies, the Employer shall have the option of terminating the contract without incurring any liability for such termination.

40. Non-disclosure clause.

The contractor shall not disclose directly or indirectly any information, materials and of the Bank's infrastructure/ system/ equipment etc. which may come to the profession

or knowledge of the contractor during the course of discharging its contractual obligations in connection with the agreement, to any third party and shall at all times hold the same in strictest confidence. The contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The contractor shall not publish, permit to be published, or disclose any particulars of the works in any trade or technical paper or elsewhere without the previous written consent of the Employer. The contractor shall indemnify the Employer for any loss suffered by the Employer as a result of disclosure of any confidential information. Failure to observe the above shall be treated as breach of contract on the part of the contractor and the Employer shall be entitled to claim damages and pursue legal remedies.

The contractor shall take all appropriate actions with respect to its employees to ensure that the obligations of non-disclosure of confidential information under this agreement are fully satisfied.

The contractor's obligations with respect to non-disclosure and confidentiality will survive the expiry or termination of this agreement for whatever reason.

41. Sexual harassment of women at workplace:

- (a) The contractor/agency shall be solely responsible for full compliance with the provisions of the "the Sexual harassment of women at workplace (Prevention, Prohibition & Redressal) Act, 2013. In case of any complaint of sexual harassment against its employee within the premises of the Bank, the complaint will be filed before the Internal Complaints Committee constituted by the contractor/agency or local complaint committee as the case may be and the contractor/agency shall ensure appropriate action under the said Act in respect of the complaint.
- (b) Any complaint of sexual harassment from any aggrieved employee of the contractor against any employee of the Bank or any employee of any other firm working in the Bank shall be taken cognizance of by the Regional Complaints Committee constituted by the Bank.
- (c) The Contractor shall be responsible for any monetary compensation that may need to be paid in case the incident involves the employee of the contractor, for instance any monetary relief, to Bank's employee or other firm's employee, if sexual violence by the employee of the contractor is proved.
- (d) The Contractor shall be responsible for educating his/her employees about prevention of sexual harassment at work place and related issues.
- (e) The contractor shall provide a complete and updated list of employees who are deployed within the Bank's premises.

42. Force Majeure: If either party is unable to perform its obligations under this Agreement due to the occurrence of an event beyond its control (such as acts of God, war like situations, riots, labor strike, government actions, earthquakes, cyclones, typhoons, and other natural calamities, etc.), that party will not be deemed to have defaulted under this Agreement. Each party agrees to use all reasonable efforts to enable performance under this Agreement to continue. If the

period of non-performance due to a force majeure event exceeds 30 days, the party whose ability to perform has not been so affected may, by giving written notice, terminate this Agreement.

Place:

Date:

Signature of the tenderer with Seal.

The condition Herein before Referred To

1.	Defects Liability Period	One year from the date of Virtual Completion Certificate
2.	Period of Final Measurement	3 months
3.	Date of Commencement & Completion of the work	12 weeks from the 14 th day from the date of work order.
4.	Date of Completion	Date of virtual completion certificate.
5.	Rate of liquidated damages for non- completion of work.	As per clause 3.15.2 mentioned in the tender
6.	Value of works for interim certificates	₹. 24.00 lakhs
7.	Period for honoring certificates	One month for interim bills and 3 months for final bill.
8.	Interest for delayed payment	3% per annum

Place:

Seal & signature of
Contractor

Date:

SECTION-VI**Check List**

Design, Supply, Installation, Testing and Commissioning (DSITC) of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ at Nagpur

Commercial Conditions

Sr. No.	Description	Bank's Terms and conditions	Acceptance of Bank's terms and conditions (YES/NO)
1	Validity	90 days from opening of tender part-I	
2	EMD	₹.1,48,395/-	
3	Terms of payment	As per applicable clause in Part I of the tender	
4	Technical Specifications	As per specifications in Part I of the tender	
5	Guarantee Period	One year from date of virtual completion.	
6	Service after sales during CAMC	Quoted rates shall include the cost of repairs/maintenance including replacement of any material / assembly / equipment / spares / labour if found necessary and monthly visit.	
7	Completion period	12 weeks from 14 th day of letter of award of work.	
8	Liquidated Damages	As per clause 3.15.2 mentioned in the tender	
9	Penalty during warranty & CAMC Period	₹.1000/- per day subject to maximum of 50% of the annual maintenance charges, if the defect in the system is not rectified within the period of 2 days	
10	Penalty for reduced Power Generation During	As per applicable clause in Part I of the tender	

Part II should not contain any terms and conditions but only priced for bill of quantity. Terms and conditions, if any, incorporated in Part II, will not be valid or considered.

Place

Date

Seal & Signature of Contractor

Section - VII
Technical Specifications

7.0 Scope of Work

The extent of the work shown and specified hereunder is defined to include all labour, materials, equipment, and supervision required for the design, fabrication, supply, installation, testing and commissioning of the complete solar power generation system, and subsequent upkeep and maintenance as defined.

- A.** Generation of Solar Power (with required sets of PCUs/ inverters to match with total capacity of required plant), conversion of the same to AC power with a **guaranteed annual generation of 1400 (One Thousand Four hundred) KWH per KWp per year** during the first five years of operation at Bank's power grid synchronization point including:
- a) Design, Manufacturing, Factory Acceptance Test (FAT), supply, installation, testing and commissioning of Solar PV Modules (inclusive of Electrical, Electronic and Mechanical features) along with Power Conditioning Units (PCUs), as required and specified.
 - b) Design, Supply and installation of Module mounting structure / super structure on identified locations. The successful tenderer shall design their SPV Panel structure with Hot dipped galvanized steel and cement concrete (CC) foundation suitable for site condition. Design of SPV structure shall be **certified /vetted by a recognized Govt. Engineering College viz. IIT / NIT etc. or by a reputed structural consultant** and submitted for approval before taking up the structure and foundation works. The successful tenderer shall carry out Shadow Analysis at the site and accordingly design strings & arrays layout considering optimal usage of space, material and labour. The bidder should submit the array layout drawings along with Shadow Analysis Report to Bank before start of work at site.
 - c) Supply, installation, testing and commissioning of three phase Power Conditioning Units (PCU),(inverter plus local grid synchronizing system), distribution panels, DC DB, AC DB with water proof metal enclosures, electrical switchgears, inverters, metering and connecting the system to the switch gear(MCB/Distribution Board) provided by the Bank for load and connecting up the system to the electrical grid, surge protection units etc. as required.

- d) Supply and laying of all power and control cables, as per site requirement, on prefabricated GI cable trays including supply of cable trays, their installation, hangers, supports, cable terminations and all fixing accessories.
- e) **Earthing:** Supply and installation of GI Pipe Earthing systems (**three nos. for each solar Power Plant system**) with an earth electrode minimum 2.5 m long and 50 mm dia as per IS 3043. 25x3 mm GI earth strip shall be provided from earthing station to the entire system. Earthing stations shall be provided with testing point for every pits as per relevant IS, including required earthing chamber with brick plaster and CI/MS cover, cutting of roads / paved areas & making good the damages as in original shape.
- f) Testing and commissioning of the entire system including synchronizing with power grid and operation as required. The installation shall include the electrical switchgears, cabling, terminations, cable trays, inverters, metering and connecting the system to the electrical grid.
- g) The PV modules shall be installed with the necessary tilt with the most effective orientation.
- h) All related & required civil works will be the responsibility of successful tenderer.
- i) Solar System capacity shall be demonstrated to the Bank's Engineer.
- j) Onsite training to RBI Engineers and Workmen for proper operation, maintenance and trouble shooting.
- k) Provision for periodic cleaning (monthly or earlier) of the solar panels considering the ambient conditions of the site during DLP and CAMC. Water connection at the same floor at one point shall be provided by Bank.
- l) Replacement of existing conventional energy meter provided by Power Supply Agency with bidirectional energy meter for Net Metering and grid connection etc. This will also include the replacement of CT/PT, required LT works, metering Box, upgradation of sanctioned load etc., if required, in the scope of the bidder. The scope shall also include the required liaison with Power Supply Agency and / or with any other applicable authority for the same. The bidder will pay the fees / charges, if any, to the power supply authority or any other authority as applicable for providing Net Metering for this work and the Bank will reimburse the said fees / charges on production of original receipts of such payment.
- m) The bidder must take **approval/ NOC from the concerned local** supply authority/ any other statutory authority as applicable for above cited grid tied solar plant towards

connectivity required if any and submit the same to the Bank before commissioning of SPV plant.

- n) **Net Metering:** Replacement of existing conventional energy meter provided by local power supply authority with bi-directional energy meter for Net Metering and grid connection etc. **This will also include the replacement of CT/PT, metering Box etc., if required, in the scope of the bidder.** The scope shall also include the required liaison with local power supply authority and / or with any other applicable authority for the same. The bidder will pay the fees / charges, if any, to the power supply authority or any other authority as applicable for providing Net Metering for this work and the **Bank will reimburse the said fees / charges only on production of original receipts of such payment.**

Service to be provided by the Bank:

Unless otherwise agreed by RBI, only the following services shall be provided in connection with this work:

- o) Single point water source for cleaning of SPV panels near to the solar system. Further plumbing for distribution of water to various array locations, if required, to be provided by the contractor.
- p) Provision of necessary switchgear in the LT distribution panel for connecting the solar energy-based AC power to the grid. However, the termination of cable to the switchgear shall be in the scope of the successful tenderer.

B. All Inclusive Upkeep & Maintenance during Defect Liability and Comprehensive Annual Maintenance Contract (CAMC) period

During the Defect Liability period and CAMC period the contractor shall provide the all-Inclusive Upkeep & Maintenance services of the entire system as provided, including all spares and consumables. The system shall be maintained by the contractor for a period of minimum 10 years from the date of handing over i.e. 09 years of CAMC after successful completion of one year of defect liability period of the system. The rates of the same are to be quoted separately as per Schedule of Quantities.

In addition to the routine / periodic cleaning of the Panels, qualified engineer of the contractor shall pay visit to the site at least once a quarter to check the system thorough and conduct preventive maintenance.

7.1 MINIMAL TECHNICAL REQUIREMENTS / STANDARDS FOR SPV ITEMS / SYSTEMS

7.1.1 PV MODULES:

The PV modules must be indigenous and conform to the latest edition of any of the following IEC/ equivalent BIS Standards for PV module design qualification and type approval:

Mono PERC (Passivated Emitter and rear cell) Silicon Terrestrial PV Modules: IEC 61215 / IS14286.

i) The Solar PV modules should be supplied from the list of manufacturers and models of solar PV modules under latest ALMM order of Ministry of New and Renewable Energy (MNRE), Government of India, as on dated 31.05.2024 or updated afterwards.

ii) In addition, the modules must conform to IEC 61730 Part 1- requirements for construction & Part 2 - requirements for testing, for safety qualification or Equivalent IS PV modules shall be suitable to be used in a highly corrosive atmosphere (coastal areas, etc.) must qualify Salt Mist Corrosion Testing as per IEC 61701 / IS 61701.

7.2 RELEVANT STANDARD OF SYSTEM/ COMPONENTS/ ITEMS

7.2.1 The system/ components/ items of the SPV power systems/ systems deployed must conform to the latest edition of IEC/ Equivalent BIS Standards/ MNRE specifications / as specified below:

System/ components/ items	Applicable BIS /Equivalent IEC Standard Or MNRE Specifications	
	Standard Description	Standard Number
Charge Controller / Maximum peak power transfer (MPPT) units	Environmental Testing	IEC 60068-2 (1,2,14,30) / Equivalent BIS Std.
Power Conditioners/ Inverters including (Maximum peak power transfer) MPPT and Protections	Efficiency Measurements	IEC 61683 / IS 61683
	Environmental Testing	IEC 60068-2 (1, 2, 14, 30) / Equivalent BIS Std.
	procedure of islanding prevention measures	IEC 62116
Cables	General Test and Measuring Method PVC insulated cables for working voltage up to and including 1100 V and UV resistant for outdoor installation	IEC 60227 / IS 694 IEC 60502 / IS 1554 (Pt. I & II)
Switches/Circuit Breakers /Connectors	General Requirements connectors – safety A.C. /D.C.	IEC 60947 part I, II, III / IS 60947 Part I, II, III EN 50521

Junction Boxes /Enclosures for Inverters/Charge Controllers/Luminaries	General Requirements	IP 65(for outdoor)/ IP 21(for indoor) as per IEC 529
Local Content	SPV - 100% All other components including PCU etc. – 40%	MNRE guidelines contained in office memorandum F.no.146/57/2017-18-P&C dated December 11, 2020 issued by Ministry New and Renewable Energy

7.3. AUTHORISED TESTING LABORATORIES / CENTERS

7.3.1 The PV modules must be tested and approved by one of the IEC authorized test centres. Test certificates can be issued by any of the NABL / BIS Accredited Testing / Calibration Laboratories.

7.3.2 Test certificates for the system/ components/ items from any of the NABL / BIS Accredited Testing Calibration Laboratories / MNRE approved test centres to be submitted to the Bank.

7.4. IDENTIFICATION AND TRACEABILITY

Each PV module used in the solar power project must use a RF identification tag (RFID), which must contain the following information. The RFID can be inside or outside the module Laminate, but must be able to withstand harsh environmental conditions.

- i) Name of the manufacturer of PV Module
- ii) Name of the Manufacturer of Solar cells of PV Module
- iii) Month and year of the manufacture (separately for solar cells and module).
- iv) Country of origin (separately for solar cells and module)
- v) I-V curve for the module
- vi) Peak Wattage, I_m , V_m and field factor (FF) for the module
- vii) Unique Serial No. and Model No. of the module
- viii) Date and year of obtaining IEC PV module qualification certificate
- ix) Name of the test lab issuing IEC certificate
- x) Other relevant information on traceability of solar cells and module as per ISO 9000 series.

7.5 The contractor shall execute the whole & every part of the work in the most substantial manner and both as regard to materials and otherwise in every respect in strict

accordance with the specifications. The contractor shall also confirm the execution of work exactly, fully and faithfully to designs, drawings & instructions in writing in respect of the work assigned by the Bank's Engineer.

7.6. ACTIONS TO BE TAKEN BY THE SUCCESSFUL TENDERER AFTER AWARD OF WORK

7.6.1 Considering that time is the essence of the contract, the successful tenderer shall take the following actions immediately –

- a) They shall contact the Bank's Engineer in charge of the work, immediately after award of work and submit the agreement on non-judicial stamp paper of adequate value as per the relevant stamp act and the cost of the same shall be completely borne by the tenderer.
- b) All the required submittals must be completed within 15 days from the date of issue of work order.
- c) A programme chart shall be prepared for execution of the work within specified time and submitted to the Bank. The work-schedule chart/ bar-chart shall also include the time schedule for commencement of various activities of work like inspection & delivery of materials, commencement of work, completion of work etc. required for the execution & timely completion of work.

7.6.2 All activities for execution of work shall strictly follow the programme chart so finalized unless advised otherwise by the Bank's Engineer in writing. It shall be the responsibility of the contractor to adhere to this work-schedule and complete the work in the specified time. Any deviation from this schedule, for any reason, shall be brought to the notice of the Bank's Engineer immediately to enable him to take necessary corrective action(s). Failure to submit the work schedule chart within the specified time or meeting the various committed deadlines shall be treated as delay on the part of the tenderer.

7.6.3 Drawings indicating the design of **Solar Power Generation System** proposed along with designs for structures / foundations for SPV array **duly certified / vetted by a recognised Govt. Engg. College** etc. shall be submitted to the Bank's Engineer, for approval, within fifteen (15) days of the receipt of work order. The drawings shall indicate all relevant details about the component/equipment etc. The contractor shall submit all equipment information, which should include but not limited to the following and obtain approval:

- a) General arrangement and dimensional layout
- b) Schematic Drawing showing the SPV System, Power conditioning Unit(s), Circuit breakers, Junction Boxes, AC and DC Distribution Boards, meters etc.
- c) Structural drawing along with foundation details for the structure.
- d) Itemized bill of material for complete SPV system covering all the components and

associated accessories.

7.7 Testing of equipment/system: Type test certificates for all the tests specified for the factory built Solar PV modules and the component parts shall be submitted by the Bidder along with the bid.

7.8.1 Factory Acceptance Test (FAT) of equipment: Delivery of equipment is to be made to the site in accordance with the programme finalized in consultation with Bank's Engineer. The equipment shall be delivered only after pre-delivery inspection has been carried out by RBI's authorized representative. Pre-delivery inspection of equipment shall be carried at the factory premises of factory. The Bank shall be informed of such inspection at least 07 days in advance.

7.8.2 Testing at site after completion of installation:

On completion of the installation, the tenderer shall conduct a system acceptance test. The tenderer shall propose a detail system acceptance test plan, which shall be jointly reviewed by RBI and the tenderer.

a) All units shall on their completion, be subjected to a performance test followed by an acceptance inspection and tests to determine that all parts of the installation confirm to the requirement and that all equipments function as required and the work has been carried out as specified.

b) Tests and inspections shall be made by the contractor in the presence of the Bank's Engineer. Contractor shall notify the Bank's Engineer in writing before the date of testing in order to facilitate arrangements for Bank's Engineer to be present.

c) The contractor shall submit proposed testing procedure to the Bank's Engineer before the date of testing.

d) All test instruments and personnel to carry out the testing and commissioning shall be provided by the contractor. Adequate supervision of the tests shall also be maintained.

e) Corrective measures, if necessary, shall be carried out at no cost to the Bank.

f) **Performance Test at Site:** After installation of the complete system, its operating capability shall be demonstrated. The contractor shall provide personnel, tools, etc. for testing. The performance test shall be conducted in the presence of Bank's Engineer or his authorized representative for a minimum of (10) ten hours for ten working days as per the following: -

- i. Measurement of peak DC & AC power generated shall be taken every day for 10

working days at available load condition.

- ii. Auto operation of the complete system Correction of unsatisfactory operation during test period, if any deficiencies or variations in the design, fabrication or operation causing unsatisfactory performance is noticed, then same shall be corrected to provide satisfactory performance. Manufacturer/Contractor shall have appropriate service personnel at site during the test period to service or adjust the systems equipments as required.

7.8.3 Acceptance of system: After completion of the system performance tests a joint acceptance inspection shall be carried out by Bank's Engineer and the representative of the contractor. The purpose of this inspection shall be to determine that the system has been furnished and installed as specified. If the system is not acceptable for reasons of non-compliance to the drawings and specifications, the contractor shall make immediate corrections within the construction schedule. A final acceptance inspection shall be done to determine all corrections have been made.

7.8.4 WARRANTY

PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end **of 10 years**

7.9 TRAINING

The contractor shall include in his tender cost of training of Bank's technical staff. Initial training of operating and maintenance personnel shall be provided at site to ensure competence in the operation and maintenance of the system provided. The training programme shall include but not limited to the following elements:

A) OPERATING TRAINING

- (i) System description including electrical, electronic and mechanical sub-system and their functions.
- ii) System operating procedures.
- iii) System operating characteristics.
- iv) System limitations.
- v) On-site system operation.

B) MAINTENANCE TRAINING

- i) System description including electrical, electronic and mechanical sub-systems and their functions.
- ii) System and component trouble-shooting
- iii) On-site inspection, operation and maintenance
- iv) Schedule of maintenance, safety checks and procedures.

7.10 DETAILED SPECIFICATIONS

Solar PV system shall consist required number of PV modules, module mounting structures, MPPT/PCU with data logger, Junction box and distribution boards, cables and hardware, earthing, surge arrestors, tool kit, related civil works, and control & monitoring system etc. The specifications of these items are as under:

7.10.1 Solar PV Modules:

- a) The solar photo-voltaic module of ≥ 535 Wp power output under STC to be provided with high efficiency of more than 20% mono passivated and rear cell (PERC) solar cells.
- b) The solar cell shall have surface anti-reflective coating to help to absorb more light in all weather conditions.
- c) It should have rugged design to withstand tough environmental conditions and high wind speeds (over 150 km/h). It shall perform satisfactorily in relative humidity upto 95% and temperature between 10 deg C and 85 deg C.
- d) PV modules must be designed for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.
- e) The PV module should be IEC 61215-Ed 2 & 61730-1&2 / UL certified and with MNRE (GOI)-SEC test certificate or from other accredited / approved labs. The I-V characteristics of all suitable modules as per specifications, to be used in the systems are required to be submitted at the time of supply.

7.10.2 Module Mounting Structures:

- a) The module mounting structure to be designed in such a way that it will occupy minimum space without sacrificing the output from suitable number of solar modules in series.
- b) The structure shall be designed to allow easy replacement of any module & shall be in line with the site requirements.
- c) The frames and leg assemblies of the mounting structure should be of standard M.S. sections of angle, channel, tubes and any other sections conforming to IS: 2062. These structures should be hot dip galvanized for the long life in external weather conditions.
- d) The mounting structure should be of Fixed Type, Tilt angle suitable to site, Foundation PCC, Fixing type with SS 304 fastener with clamp fitted to provide rigidity to the structure.
- e) Galvanized Steel Structural must be considered for all type structural steel proposed for the power system.
- f) The array structure shall be grounded properly using earthing kit.
- g) Design drawings with material selected shall be submitted for prior approval of Bank.

7.10.3 PCU / MPPT/INVERTER:

- a) PCU / MPPT and 3 phase with neutral inverter shall be supplied as integrated unit

depending upon the size of the solar power system. It should conform to IEC61683 and must additionally conform to the relevant national/ international Electrical Safety Standards IEC60068-2. To minimize power losses, the PCU should be microprocessor & micro controller based having inverter, which converts DC energy produced by the solar array to 3 phase with neutral AC energy.

- b) The PCU shall be mounted either on a suitable MS stand on the floor or on the wall with proper supports in the control room. All cable entry to and from the PCU shall be fully sheathed to prevent access of rodents, termites or other insects into the PCU from bottom/top of the PCU.
- c) PCU should be communicating on the sim-based dongle (preferably) / **Modbus TCP Protocol** and should be provided with Ethernet port(s) for communication. The Modbus register mapping details of the inverter shall be provided to the Bank along with the technical specifications of the PCU in the tender Part-I.
- d) The PCU should provide the following minimum Indications (through LEDs & LCD display)
 - Inverter ON
 - Grid ON
 - Inverter under voltage/over voltage
 - Inverter over load
 - Inverter over temperature.

Protections:

- Over voltage both at input & output
 - Over current both at input & output
 - Over/under Grid frequency
 - Over temperature
 - Short circuit
 - Protection against lightening
 - Surge voltage induced at output due to external source.
- e) The inverter shall be designed for continuous, reliable power supply as per specifications. The inverter shall have high conversion efficiency from 25 percent load to the full rated load. Output Sine wave with less than 3% THD from no load to full load at 0.8 pf lag or lead. The efficiency of the inverter shall be more than 94% at full load and more than 80% at partial load (50%-75%). The supplier shall specify the conversion efficiency in the offer.
 - e) The inverter should be capable of operating under ambient temperature 0- 55 deg C, Humidity 0-95% RH
 - f) The inverter shall have internal protection arrangement against any sustained fault in the feeder. The inverter shall have provision for input & output isolation.
 - g) Inverter shall be tested for islanding protection performance and should be

provided. When the mains power is off, the PCU should also get automatically off so that back-feeding to the grid is not possible.

- h) The software (Plant Manager & PC for remote monitoring through LAN) and hardware **except PC**, required for interfacing the system are to be supplied.
- i) Maximum Power Point Tracker (MPPT) shall be integrated into the PCU to maximize energy drawn from the Solar PV array. The details of working mechanism of MPPT shall be furnished. Each solid-state electronic device shall have to be protected to ensure long life of the inverter as well as smooth functioning of the inverter.
- j) The dimension, weight, foundation, makes details etc. of the PCU / Inverter shall be clearly indicated in the detailed technical document. Good quality & reputed proven makes having minimum two years of trouble free successful functioning in similar solar PV system should be supplied.
- k) The PCU shall be capable of complete automatic operation, including wake-up, synchronization & shut down.
- l) Built-in with data logging to remotely monitor system performance through external PC shall be provided (PC shall be provided by Bank)

7.10.4 Junction box and distribution boards:

- a) The junction boxes should be dust, vermin & waterproof & made of FRP/ABS plastic for outdoor use and IP 65 rated (for outdoor) / IP 21 (for indoor) and IEC 62208, for long-term use in PV systems. In addition, the direct connection between the strings and the spring clamp connectors should ensure a durable and safe installation.
- b) The junction boxes shall have suitable cable entry points fitted with cable glands of appropriate sizes for both incoming & outgoing cables. Suitable markings shall be provided on the bus bar for easy identification & cable ferrules shall be fitted at the cable termination points for identification.

7.10.5 Cables and hardware:

- a) Flexible copper cables of appropriate size and voltage rating of 660/1000V to be used in the system and shall conform to IS 694/1554 standards. The cable should have excellent resistance to heat, cold, water, oil, abrasion, UV radiation.
- b) Required sizes of flexible copper cables between array interconnections, array to junction boxes, junction boxes to Inverter and aluminum armoured cable from inverter / AC DB to location of propose Net Meter/ power synchronize point (**approx. length 30 mtrs.** from Inverter at each location) etc. shall be so 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.
- c) 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 ferule or by other means so that the cable easily identified.

- d) As per site requirement Cable laying through underground / across the road by providing necessary GI pipe is within the scope of work of the tenderer.
- e) The Cable should be so selected that it should be compatible upto the life of the solar PV panels i.e. 25years.

7.10.6 Instrumentation, measurement and monitoring: -

The scope of work shall include for supply and installation of pyrometer, temperature probes for recording the solar panel temperature, anemometer for measuring the wind speed. All these instruments shall be integrated, and the data should be logged for viewing on the PC screen. Necessary software also shall be provided for the same.

Data Logging Provision for system monitoring, time and date stamped system data logs for analysis shall be made.

Metering and Instrumentation for display of systems parameters and status indication to be provided.

PV array energy production: Digital Energy Meters to log the actual value of AC/ DC voltage, Current & Energy generated (each day / cumulatively) by the PV system shall be provided.

Solar Irradiance: An integrating Pyranometer (Class II or better) shall be provided, with the sensor mounted in the plane of the array. Readout integrated with data logging system.

Temperature: Temperature probes for recording the Solar panel temperature and ambient temperature to be provided complete with readouts integrated with the data logging system

Wind Speed: An integrated wind speed measurement unit to be provided.

All major parameters available on the digital bus and logging facility for energy auditing shall be available on the PC display.

The following parameters should be accessible via the operating interface display.

- a. AC Voltage.
- b. AC Output current.
- c. Output Power
- d. DC Input Voltage.
- e. DC Input Current.

- f. Time Active
- g. Time disabled.
- h. Time Idle
- i. Temperatures (°C).
- j. Inverter Status.

7.11.1 System protections requirements: Protective function limits (Viz-AC Over voltage, AC Under voltage, over frequency, under frequency, ground fault, PV starting voltage, PV stopping voltage, over voltage delay, under voltage delay, Ground fault delay, PV starting delay, PV stopping delay).

7.11.2 In addition to above, the system shall be provided with the following:

- a) **Earthing:** The structure of the PV arrays will be grounded properly using adequate number of earthing. All metal casing / shielding of the system shall be thoroughly grounded to ensure safety of the solar systems.
- b) **Lightning and O/V protection:** The SPV systems shall be provided with lightning & over voltage 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.
- c) All wiring/cables should be in proper conduit or suitable casing and wires should not be hanging loose.
- d) All connections are to be made through suitable cable/lug/terminals; crimped properly & with use of Cable Glands.
- e) Switches / Circuit Breakers / Connectors-safety IS/ IEC 60947 part I, II & III, EN 50521
- f) Fuses to be provided to protect against short circuit conditions.
- g) Details of solar power system design and layout for all systems shall be submitted along with Technical bid (Part-I)
- h) All the components of the systems viz PV modules, Electronics, etc. should have type approval / test certificates **as per MNRE guide lines**
- i) All components and materials used in the system should be of good quality & conform to the BIS / IEC standards / specifications, wherever available / applicable.
- j) Each system should have number plate with name & logo of the manufacturer and the month / year of installation. Operation and Maintenance / Instruction Manual (with Do's and Don'ts) to be provided with each system.
- k) Danger boards should be provided as and where necessary as per IE Act./IE rules

as amended up to date.

7.11.3 ENVIRONMENT/MAINTENANCE/ SAFETY DESIGN PARAMETERS

i) Environment

All components and materials are to be designed and selected for long service life under local environment conditions.

ii) Maintenance consideration

- a) Particular attention shall be given to keep components simple, rugged and easily accessible for routine maintenance and components replacement.
- b) Major assemblies and components such as, electrical components/controls shall be interchangeable and easily removable/replaceable without extensive dismantling of other assemblies of components.
- c) **All wiring shall be of a uniform colour coding and marking system throughout indicating wiring terminations** to permit rapid effective tracing and trouble shooting. Maintenance manual shall reflect said colour coding/markings.
- d) To facilitate identification, each item of equipment shall have a name plate of corrosion resistant metal attached in a conspicuous location.

iii) Safety considerations

All components shall be designed to have fail proof performance. Safety railing in M.S. material shall be provided for the solar panels installed above the water tank. In the event of an equipment failure or external influence such as improper operation, power failure or other adverse conditions affecting the proper function of the system or equipment, the said system or equipment **shall revert to a safe state**.

If any accessories, parts, approvals required from Govt. agencies etc. which are not mentioned above but are required to complete the work, are in the scope of the tenderer.

Place:

Date:

seal & signature of the Tenderer

A. SCHEDULE OF TECHNICAL INFORMATION

i)	Enclose a write up on the system design proposed for this project specifically indicating how the power generated from the solar energy will be synchronized with the local grid.	
ii)	Enclose a single line diagram (SLD) / schematic layout for the proposal indicating the ratings and quantity of major components viz. SPV Modules, nos. of arrays, AC & DC distributions, PCUs etc. for the Solar plant.	
iii)	Enclose the proposed layout of the SPV module array showing the spacing between arrays, walk way width etc. for the Solar plant.	
iv)	Confirm the minimum guaranteed annualized energy (KWH/year) that will be generated from solar energy source and available for internal use for 25 years.	Please fill up the format Enclosed under Annex. B for the Solar plant.
v)	Confirm the area required by the bidder for installation of SPV panels along with its structure, maintenance, walk ways to provide a generating capacity of 160 KWp as required in the tender.	For 15 KWp (4 Nos.) Length in Meter _____ Width in Meter _____ Total area in sqm. _____ For 50 KWp (2 Nos.) Length in Meter _____ Width in Meter _____ Total area in sqm. _____
vi)	Enclose drawing showing typical arrangement for mounting of SPV modules along with dimension and nature of foundation for above Solar plant.	(plan, elevation and section to be enclosed)
vii)	Confirm the total quantum of AC power to be available from the installed SPV Modules	_____ KVA for 15 KWp plant. _____ KVA for 50 KWp plant.
viii)	Confirm the location of energy meters to be provided for continuous measurement of AC power generated.	

ix)	Please confirm the acceptance test procedures to be adopted during FAT for the SPV Modules. Also indicate the standard to be followed.	
x)	Please confirm the acceptance test procedure to be adopted on completion of the work for the major components and the complete system at site.	
xi)	Please attach the Modbus Register mapping details of the offered Inveter(s) for communication.	

**B. SCHEDULE OF TECHNICAL DATA TO BE FUNISHED BY THE CONTRACTOR
(FOR SOLAR POWER PLANTS)**

S. No.	Description	For 15 KWp	For 50 KWp
A	SPV MODULE		
i.	Manufacture's Name & Address		
ii.	Type of Modules with cat. Reference		
iii.	Design of module at standard test condition		
	a) Peak power watt		
	b) Peak power voltage		
	c) Peak power current		
	d) Open circuit voltage		
iv.	No. of SPV Modules proposed to achieve the minimum rated DC power i.e. 160 KWp		
v.	Short circuit current of PV module (Amp.)		
vi.	Open circuit voltage of PV Module (V)		
vii.	Max. power rating of one PV Module (KWp) (not less than 535Wp)		
viii.	Photo electrical conversion efficiency of SPV module (not less than 15%)		
ix.	Fill factor of the SPV module (> 0.70)		
x	Designated life of the SPV modules		
xi.	Overall dimensions (in mm)		
xii.	Weight		
Xiii	Frame materials		
xiv.	Reference of Standards / approval, if any		
xv.	Life of SPV Module (Years of Operation)		
B	PV ARRAY CAPACITY		
	Number of Module in series in each array		
	Peak power rating of one array		
	Number of array considered to achieve the specified output		
C	MODULE MOUNTING STRUCTURE		
i)	Type of structure and its materials used in frame and accessories		

S. No.	Description	For 15 KWp	For 50 KWp
ii)	Type of mounting structures (Fixed or any other type)		
iii)	Overall dimensions		
iv)	Type of mounting		
v)	Surface azimuth angle of PV Modules		
vi	Tilt angle (Slope) of PV module		
vii.	Confirm structure & module frame shall be designed at wind speed 150 km/hr.		
D	POWER CONDITIONING UNITS (PCUs)		
i.	Manufacturer's name & address		
ii.	Type of PCU (Centralized or string type)		
iii.	Number of units proposed for each set of solar plant.		
iv.	Rated capacity of each PCU for each set of solar plant.		
v.	Input DC Voltage range of each PCU for each set of solar plant.		
vi.	Output voltage		
vii.	Frequency		
viii.	Minimum efficiency at full load		
ix.	Location (outdoor/indoor)		
x.	Output wave shape		
xi.	Dimensions in mm		
xii.	IP protection level		
xiii.	Type of cooling required		
xiv	Type of mounting		
xv.	Suitability for specified Ambient Temp. range & Humidity at _____		
xvi.	Type of Protection provided		
xvii	Over Load Condition	Yes/No	
xviii	Short Circuit Protection	Yes/No	
xix	Low/High Voltage Protection	Yes/No	
xx	Power Electronic Component Protection Yes/No	Yes/No	
E.	METERING		
i.	Nos. of meters proposed to be provided for measurement of actual value of AC/ DC voltage,		

S. No.	Description	For 15 KWp	For 50 KWp
	Current & Energy generated (each day / cumulatively) by the PV system shall be provided.		
ii.	Location of meters		
iii.	Manufacturer's name & address		
iv	Confirm compliance with laid down specification		
F	1. Copy of Undertaking furnished by the manufacturer of SPV Modules and manufacturer of PCUs enclosed. 2. In case the manufacturers of these two items are different, separate undertakings by the manufacturer of SPV Modules and manufacturer of PCUs must be furnished by the respective manufacturer.		
G	A letter from the OEM, authorizing the bidder to participate in the tender		
	copy of the agreement with the OEM as regards implementation of similar projects in India and they're after sales service		
H	Confirm to follow the Criteria of Local Content for SPV & All other components including PCU: Requirements are (i) SPV - 100% (ii) All other components including PCU etc. – 40% Reference: MNRE guidelines contained in office memorandum F.no.146/57/2017-18-P&C dated December 11, 2020 issued by Ministry New and Renewable Energy or as latest updated guidelines.		

Place:

Date:

Seal & Signature of the Tenderer.

ANNEXURE-“B”

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ at Nagpur

GUARANTEED ENERGY GENERATION FOR 25 YEARS

Note: Efficiency of each solar PV System shall be guaranteed to **minimum** 90% at the end of 10 years and 80% at the end of 25 years.

(To be filled and uploaded along with tender Part-I)

Year	Total (KWh) of guaranteed generation	
	15 KWp	50 KWp
Year 1		
Year 2		
Year 3		
Year 4		
Year 5		
Year 6		
Year 7		
Year 8		
Year 9		
Year 10		
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
Year 16		
Year 17		
Year 18		
Year 19		
Year 20		
Year 21		
Year 22		
Year 23		
Year 24		
Year 25		

Place:

Date:

Seal & Signature of the tenderer.

Format for undertaking for product & maintenance support

(To be submitted by the tenderer)

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of 160 (4 Nos X 15 KWp + 2 Nos. X 50 KWp) KWp Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ at Nagpur

Pursuant to a contract awarded by Reserve Bank of India for the full scope of work as contained under the tender document for the above-mentioned work or part thereof, we (*full name of the firm with address*), hereby undertake the complete responsibility for providing full product support and also maintenance support for the entire period of the designed life of the equipments so supplied and installed by us, promptly and expeditiously.

Further, in case any of the component(s), materials or parts used in the system so provided goes out of production, then we will make available the blueprints, drawings of the spare parts and specifications of materials at no cost to the RBI, as and when required in connection with the equipment to enable the RBI to procure spare parts from other sources.

Thanking You

Yours faithfully,

(Signature of the Contractor / Firm with Company's Seal)

Undertaking

(To be submitted for SPV Modules and for PCU separately)

(Separate two Undertaking by manufacturer of SPV Modules and manufacturer of PCUs regarding the manufacture's obligation to extend uninterrupted after sales service to RBI)

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of 160 (4 Nos X 15 KWp + 2 Nos. X 50 KWp) KWp Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ at Nagpur

We, the manufacturer of Solar Power System Component(s) undertakes to provide continued after sales service including but not restricted to the following services.

- i) To guarantee uninterrupted supply of spare parts throughout the designed life of SPV modules and PCU's. The designed life of SPV modules and PCU's shall be as indicated elsewhere in the technical bid.
- ii) To assist RBI in investigation of failure/malfunctioning of any part or system as and when called for by RBI during and after defects liability period.
- iii) We shall propose with cost estimate, any modification / up gradation of safety features, design modification / improvements to be incorporated in the SPV modules and PCU's subsequent to completion of the contract and suggest a time schedule to implement the same to enhance performance, reliability / life of SPV modules and PCU's.
- iv) We hereby undertake to provide the above services and respond to RBI's queries/requests in reasonable time notified by RBI during the design life of the SPV modules and PCU's.
- v) Any breach of above undertaking will entail RBI to take any or all actions mentioned below as deemed fit by RBI.

- a) To place on record the performance of firm either in the RBI Web Site or other publications.
- b) Intimate the Regulatory Authorities / bodies or other Banks.
- c) Restrict the firm's participation in further tendering in RBI.

Date: (Name and address of the company with Company Seal)

Important Note :

- 3. *This undertaking shall be furnished by the **manufacturer of SPV Modules** and **manufacturer of PCUs**.*
- 4. *In case the manufacturers of these two items are different, separate undertakings by the **manufacturer of SPV Modules** and **manufacturer of PCUs** must be furnished **by the respective manufacturer**.*

DECLARATION OF COUNTRY OF ORIGIN

(To be furnished by the tenderer)

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of 160 (4 Nos X 15 KWp + 2 Nos. X 50 KWp) KWp Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ at Nagpur

This is to certify that

a) The SPV Modules & PCU's offered are new:

b) The **SPV Modules** will be manufactured, assembled and offered for inspection before dispatch the works/factory of _____ (address)

Therefore, **Country of Origin of SPV Modules** shall be _____.

c) The **Power Conditioning Units (PCUs)** will be manufactured, assembled and offered for inspection before dispatch at the works / factory of (address India)

Hence the **Country of Origin of PCUs** shall be _____.

Date : _____

(Name of the Company with address and Company Seal)

Note:

1. There could be different country of origin for SPV Modules & PCUs.
2. Specific address shall be provided **for carrying out pre-delivery inspection** at the works of the manufacturer.

Factory Acceptance Test

Solar PV Modules: The Solar PV modules shall be tested at the factory in the following manner:

- i) **Physical Inspection:** The PV modules shall be inspected for its physical parameters such as dimensions, material and workmanship etc.

- ii) **Performance Parameter:** The Solar PV modules shall be tested at the factory on a sun simulator at Standard Temperature Conditions (STC) for the following Parameters:
 - a) Open Circuit Voltage (Voc)
 - b) Short Circuit Current (Isc)
 - c) Max. Power (Pmax.)
 - d) Voltage at Max. Power (Vmax.)
 - e) Current at Max. Power (Imax.)
 - f) Fill Factor
 - g) Module efficiency

2. Power Conditioning Unit (PCU): The power conditioning unit shall be inspected for the display of parameters as mentioned in the tender either at factory of OEM/ Integrator or at site.

CLIENT's CERTIFICATE REG. PERFORMANCE OF CONTRACTOR

Name & address of the Client

Details of Works executed by Shri /M/s

- 1 Name of work with brief particulars
- 2 Agreement No. and date
- 3 Agreement amount
- 4 Date of commencement of work
- 5 Stipulated date of completion
- 6 Actual date of completion
- 7 Details of compensation levied for delay(indicate amount) if any
- 8 Gross amount of the work completed and paid
- 9 Name and address of the authority under whom works executed
- 10 Whether the contractor employed qualified Engineer/Overseer during execution of work?
- 11 i) Quality of work (indicate grading) Outstanding/Very Good/
Good/Satisfactory/poor
- ii) Amt. of work paid on reduced rates, if any.
- 12 i) Did the contractor go for arbitration?
- ii) If yes, total amount of claim
- iii) Total amount awarded
- 13 Comments on the capabilities of the contractor.
- a) Technical proficiency Outstanding/Very Good/
Good/Satisfactory/poor
- b) Financial soundness Outstanding/Very Good/
Good/Satisfactory/poor
- c) Mobilization of adequate T&P Outstanding/Very Good/
Good/Satisfactory/poor

d) Mobilization of manpower	Outstanding/Very Good/ Good/Satisfactory/poor
e) General behavior	Outstanding/Very Good/ Good/Satisfactory/poor

**Signature of the Reporting
Officer* with Office seal**

* Regarding performance report/clients' certificate, for works carried out **for Government/ public sector companies**, the certificate should be **signed by** the concerned Executive Engineer or an officer in an equivalent or higher rank. For works carried out **for Private companies**, Copy of TDS has to be submitted for proving the credentials/contract amount.

(i) All columns should be filled in properly

(ii) The Client Certificates should be submitted for each of the Prequalification work/s

FORMAT OF BANKERS' CERTIFICATE

1. Composition of the firm (whether Partnership/ Private Limited/ Proprietorship/ Public Limited.)
2. Name of the Proprietor/ Partners/ Directors of the firm.
3. Turnover of the firm for the last 3 financial years as on March 2024 (year wise).
2021-22
2022-23
2023-24
4. Credit facility/ Overdraft facility enjoyed by the firm.
5. Dealings
6. The period from which the firm has been banking with your bank.
7. Any other remarks.

You may also kindly forward your opinion whether the above firm is considered financially sound to be entrusted with the contract for works estimated to cost ₹. 74,19,760/-

(Signature)
For the Bank
Note:

Bankers' certificates should be on letter head of the Bank, addressed to RBI.

In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF PROPOSAL

(On Non-Judicial Stamp Paper of appropriate value)

Know all men by these presents, We (Name of the Bidder and address of their registered office) do hereby constitute, appoint and authorize Mr. / Ms.

..... (Name and residential address of Power of Attorney holder) who is presently employed with us and holding the position of as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for the Design, Supply, Installation, Testing and Commissioning of grid interactive 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) SPV based Solar Power System for MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ at Nagpur, including signing and submission of all documents and providing information / responses to RBI, representing us in all matters before RBI, and generally dealing with RBI in all matters in connection with our proposal for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Note:

Power of Attorney should be properly stamped, and notarized
Power of Attorney furnished shall be irrevocable.

Signature/(s) of the Bidder

Name/(s)

Stamp/Seal of the Bidder

(NB: This guarantee will require stamp duty as applicable in the state, where it is executed and shall be signed by the official whose signature and authority shall be verified).

Proforma For Bank Guarantee In Lieu Of Earnest Money Deposit

(To be submitted on non-judicial stamp paper of appropriate value purchased in the name of the issuing Bank)

This deed of guarantee made this ____ day of ____ two thousand ____ between ____ (Name of Banker) having its registered office at ____ (place) and one of its local offices at ____ (hereinafter referred to as the Surety), and Reserve Bank of India, a Corporation constituted by the Reserve Bank of India Act, 1934, having its Central Office at Central Office Building, Shahid Bhagat Singh Road, Nagpur-400 001 INDIA (hereinafter referred to as the Bank).

WHEREAS _____ (Tenderer's name hereinafter referred to as 'Tenderer') a Company registered under ____ and having its registered office at _____ is bound to deposit with the Bank by way of earnest money INR _____ (INR _____ only) in connection with its **Design, Supply, Installation, Testing and Commissioning of grid interactive 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) SPV based Solar Power System for MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ at Nagpur** and the specifications and terms and conditions enclosed therein.

WHEREAS the tenderer as per clause No. ____ Section II of Instructions to tenderers and special conditions has agreed to furnish a Bank Guarantee valid up to _____ instead of deposit of earnest money in cash.

NOW THIS WITNESSETH:

1. That the Surety in consideration of the above Tender made by the Tenderer to the Bank hereby undertakes to guarantee payment on demand without demur to the Bank the said amount of INR _____ (INR _____ only) within one week from the date of receipt of the demand from the Bank on presentation of this deed of guarantee, which the Tenderer is bound to deposit with the Bank by way of **earnest money in connection with his Tender**.
2. This guarantee shall not be affected by any infirmity or irregularity on the part of the Tenderer or by the dissolution or any change in the constitution of the Bank, Tenderer or the Surety.
3. The Bank shall be eligible to make any claim under this guarantee if the Tenderer after submitting his Tender, rescinds from his offer or modifies the terms and conditions thereof in a manner not acceptable to the Bank or expresses his unwillingness to accept the order after the Bank has decided to place order with the Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ at Nagpur The Banks' decision in this regard shall be final and binding.
4. The Surety shall not and cannot revoke this guarantee during its currency except with previous consent of the Bank in writing.

5. Notwithstanding anything contained in the foregoing, the Surety's liability under the guarantee is restricted to INR _____ (INR _____ only).
6. This guarantee shall remain in force and effective up to _____ and shall expire and become ineffective on intimation thereof being given to the Surety by the Bank in which event this guarantee shall stand discharged.
7. The Surety will make the payment pursuant to the demand notice issued by the Bank, notwithstanding any dispute that may exist or arise between the Tenderer and the Bank or any other person.
8. Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.
9. Notwithstanding anything contained hereinabove, unless a demand or claim under this guarantee is made on the Surety in writing on or before _____, the Surety shall be discharged from all liabilities under guarantee thereafter.
10. The Surety has the power to issue this guarantee under its Memorandum and Articles of Association and the person who is hereby executing this deed has the necessary powers to do so under the Power of Attorney granted to him by the Surety.

SIGNED AND DELIVERED

For and on behalf of above named Bank.

For and on behalf of

(Banker's Name and Seal)

Branch Manager
(Banker's seal)

Proforma of Bank Guarantee for Security Deposit

(To be submitted on Non-judicial stamp paper of appropriate value purchased in the name of the issuing bank)

Place : _____

Date : _____

The Regional Director
Reserve Bank of India
Estate Department,
Nagpur-440001.

Dear Sir,

Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ at Nagpur

Bank Guarantee for PERFORMANCE SECURITY DEPOSIT

WHEREAS

Reserve Bank of India, having its Central Office at Shahid Bhagat Singh Road, Nagpur, (hereinafter called "the RBI") has awarded the Contract for the captioned project (hereinafter called the "Contract") to M/s _____ (Name of the Contractor) (hereinafter called "the said Contractor" which expression shall include its successors and assigns).

AND Whereas we are aware that an agreement has been executed between the Reserve Bank of India and the contractor and in terms of clause _____ of the said agreement the contractor is bound by the said Contract to submit to RBI a Performance Security for a total amount of ₹. _____ (Rupees _____ only) (Amount in figures and words) for the due fulfilment by the said contractor of the terms and conditions contained in the contract. We, _____ (Name of the Bank), (hereinafter called "the Bank"), at the request of M/s _____, the contractor, do hereby undertake to pay to the RBI an amount not exceeding Rs _____ as Performance Guarantee for due fulfilment of the terms and conditions of the contract.

NOW THIS GUARANTEE WITNESSETH

1. We (Name of the Bank) do hereby agree with and undertake to RBI, their Successors, Assigns that in the event of the RBI coming to the conclusion that the Contractor has not performed his obligations under the said conditions of the contract or have committed a breach thereof, which conclusion shall be binding on us as well as the said contractor; we shall on demand by the RBI, pay without demur to the RBI, a sum of Rs (Rupees only) or any lower amount that may be demanded by the RBI. Our guarantee shall be treated as equivalent to the Performance Guarantee Amount for the due performance of the obligations of the Contractor under the said

Contract, provided, however, that our liability against such sum shall not exceed the sum of Rs. (Rupees only).

2. We also agree to undertake to and confirm that the sum not exceeding Rs. (Rupees only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the RBI on receipt of a notice in writing stating that the amount is due to them and we shall not ask for any further proof or evidence and the notice from the RBI shall be conclusive and binding on us and shall not be questioned by us in any respect or manner whatsoever. The Bank shall pay to RBI any money so demanded notwithstanding any dispute/disputes raised by the Contractor in any suit or proceedings pending before any Court, Tribunal or Arbitrator/s relating thereto and the liability under this guarantee shall be absolute and unequivocal. We undertake to pay the amount claimed by the RBI within a period of one week from the date of receipt of the notice as aforesaid.

3. We confirm that our obligation to the RBI under this guarantee shall be independent of the agreement or agreements or other understandings between the RBI and the Contractor.

4. This guarantee shall not be revoked by us without prior consent in writing of the RBI.
hereby further agree that –

a) Any forbearance or commission on the part of the RBI in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said Contract and/or hereunder or granting of any time or showing of any indulgence by the RBI to the Contractor or any other matters in connection therewith shall not discharge us in any way and our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Contractor of their obligations and in the event of their failure to do so, by payment by us of the sum not exceeding Rs. (Rupees only).

b) Our liability under these presents shall not exceed the sum of Rs. (Rupees only).

c) Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents/clients or their obligations thereunder or by dissolution or change in the constitution of our said constituents.

d) This guarantee shall remain in force up to 1 years from the virtual completion date of the project provided that if so desired by the RBI, this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions as contained herein.

e) Our liability under these presents will terminate unless these presents are renewed as provided hereinabove on the or on the day when our said constituents comply with their obligations, as to which a certificate in writing by the RBI alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within or any extended period, all the rights of the RBI against us under this guarantee shall be forfeited and we shall be released and discharged from all our obligations and liabilities hereunder.

In witness whereof I/We of the Bank have signed and sealed this guarantee on the -----day of----- (Month) (Year) being herewith duly authorized.

For and on behalf of _____ (Name of the Bank)

Signature of authorized Bank official

Name:

Designation

Stamp/ Seal of the Bank

Signed, sealed and delivered for and on behalf of the Bank by the above named in the presence of:

Witness 1

Signature

Name

Address

(NB: This guarantee will require stamp duty as applicable in the state, where it is executed and shall be signed by the official whose signature and authority shall be verified).

Annexure - L**NEFT Details****Details of Bank Account for effecting e-payments towards EMD**

Name of the Institution: Reserve Bank of India, Nagpur

Address (in full): Reserve Bank of India

Estate Department

Nagpur-400 001

1	Name of the Account Holder (as appearing in the Bank Account)	Reserve Bank of India,, Nagpur
2	Account Number	8714295, IFSC Code: RBIS0NGPA01 (5 th & 10 th digit is zero)
3	Type of Account (Savings, Current etc.)	Current
4	PAN Number	-----
5	Name of the Bank	Reserve Bank of India
6	Name of the Branch	Nagpur
7	Address of the Bank	RBI, Nagpur
8	NEFT/IFS Code	
9	Name of the Account	

Details indicating exemption from payment of IT (if applicable):

NOTE :-

- 1. UNDER SECTION 48 OF RBI ACT 1934, RBI SHALL NOT BE LIABLE TO PAY INCOME TAX OR SUPER TAX ON ANY OF ITS INCOME, PROFITS OR GAINS.**
- 2. PLEASE DON'T REMIT THE PAYMENT THROUGH RTGS. PLEASE MAKE THE PAYMENT BY NEFT ONLY.**

Annexure - M

*(To be submitted by bidders on their letter head duly sealed
and signed by the authorized signatory)*

To

The Regional Director
Reserve Bank of India
Estate Department, 1st
floor, Opp. Vidhan Bhavan,
Nagpur-440001.

**Name of Work:Design, Supply, Installation, Testing and Commissioning
of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive
SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's
ALSQ,ARSQ,TRSQ and BTOQ at Nagpur**

I / We_____ (Name
and address, including Country of location of bidder) have
read and understood the contents of the Office
Memorandum (OM) F. No. 6/18/2019-PPD dated July 23, 2020
and its subsequent orders / revision issued by Public
Procurement Division, Department of Expenditure, Ministry of
Finance, Government of India regarding the restrictions on
procurement from a bidder of a country which shares a land
border with India.

2. I/We_____ certify
that_____

(Name of the bidder)

- i. is not from a country sharing land border with India, or
- ii. is from a country sharing land border with India and has been
registered with the Competent Authority, the certificate of which
is enclosed, or
- iii. is from a country sharing land border with India where
Government of India has extended lines of credit, or
- iv. is from a country sharing land border with India where
Government of India is engaged in development projects.

(Strikeout whichever of the above is not applicable).

3. I /We further certify that_____ (Name of bidder) fulfils all requirements in this regard and is eligible to be considered under the provision of the above referred Office Memorandum and its subsequent orders / revision. I/We also undertake that even in case of contracts where we are permitted by _____ the Bank/RBI to sub- contract I/we_____ (Name of bidder) will not sub-contract any work to a contractor from country(ies) sharing land border with India, unless such contractor fulfils all the requirements contained in the above referred office memorandum / order.

4. I/We know and understand that, if this Undertaking / Declaration / Certificate submitted by us is found to be false, the Bank shall be free to reject / terminate our tender / Work Order and that the Bank shall also be free to initiate any legal action in accordance with law including forfeiting of Earnest Money Deposit / Performance Bank Guarantee / Security Deposit and / or debarring us from participating in tenders invited by the Bank in future.

Signature and name of the
authorized signatory of the Bidder
with Rubber Stamp

Date:

Place:

Annexure - N

(To be submitted by the tenderer on their letterhead)

Name of Work: Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ,ARSQ,TRSQ and BTOQ, Nagpur.

1. I/We (Name of the bidder) declares that

- a) I/we or any of our allied firm* is/ are not debarred/ suspended/ blacklisted by any public institution/ entity in India or any other country as on (last date of submission of bid).
- b) I/ We or any of our allied firm* have not made any transgression in respect of the code of integrity (as mentioned in the tender) with any public institution/ entity in India or any other country in last three years as on(last date of submission of bid).
- c) We will inform the Bank in writing, in case, I/we or any of our allied firm* is/are debarred/ suspended/ blacklisted by any public institution/ entity in India or any other country on or before award of work for the captioned work.

2. I/We.....(Name of the bidder) declare that I/we or our allied firm*(Name of the allied firm(s)) is/are debarred/suspended/ blacklisted by

.....(Name and address of public institution in India or any other country) and the same effective upto(date). A copy of such letter is attached for your information and record.

(seal and signature of the bidder)

Date

Place

(Note: strike out one of the above two declarations which is not applicable)

*Allied firm: A firm would be termed as "allied firm" if the management is common, or substantial or majority shares are owned by the banned/ suspended firm and by virtue of this it has a controlling voice. Further all successor firms will also be considered as allied firms.

**Reserve Bank of India Estate
Department, Nagpur**

Un-Priced Bill of Quantities (not for quote)

Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ at Nagpur

Sr.No.	Description of the work	Qty.	Unit
A	Design, manufacture, supply, installation, Testing and Commissioning of total of 160 KWp capacity grid interactive SPV based Solar Power System as per the following different locations mentioned in serial number i, ii, iii, iv, v & vi placed below. The system shall have guaranteed annualized AC energy output of 1400 Kilo watt hour (KWH) per year per KWp during the first ten years of operation and as specified in part I of the tender. The rate shall include for all the material required including required quantities of SPV modules formed into arrays, their mounting arrangement, power conditioning units, required DC & AC distribution panels with surge protection units, data loggers along with PC based arrangement for system performance monitoring through licensed software, metering safety arrangements, civil works, training etc. as defined in Part I of the tender to provide a composite operational system. The work shall include supply, installation, testing and commissioning of the required number of G.I. pipe earthing stations (minimum 3 Nos. earthing per power plant) as per IS 3043:2018 and 25 x 3 mm G.I. earth strip on wall/ ceiling/existing trenches/earth, of required length, necessary spacers and saddles at 300 mm interval. The rate shall also include the supply, installation, testing and commissioning of ACDB & DCDB having MCBs of required capacity near the inverter and power cable of required size for transferring the power generated by above solar system from the terrace / inverter to the switch available near the existing meter panel. The rate shall include for all the taxes, duties, levies, insurance, transportation, loading unloading of the material etc.		

i	50 KWp at Annex Building, Main Office Building, Nagpur	1	Set
ii	50 KWp at Additional Office Building, Nagpur	1	Set
iii	15 KWp at Atrey layout staff Quarters F Block terrace, Nagpur	1	Set
iv	15 KWp at Byramji town Officers Quarters F Block Terrace, Nagpur	1	Set
v	15 KWp at Telangkhedi road staff Quarters, F Block Nagpur	1	Set
vi	15 KWp at Amravati road Quarters, C Block Nagpur	1	Set
	Total		

B	Comprehensive annual maintenance charges for periodic maintenance/servicing of complete system including providing all spare parts/ tools/ consumables for servicing as required as per good engineering practice, recommendation(s) of the respective equipment manufacturer(s) and instructions of engineer-in-charge as per the scope of work in Part I of the tender. The rate shall include for periodic recharge of sim of the system and monthly cleaning of the solar panels. Rate shall also include for replacing the faulty equipment such as solar panels, inverter etc. including weather monitoring device, remote monitoring system. The rate shall be applicable after one-year defect liability period/warranty of entire unit. The rate shall include for all the taxes, duties, levies, insurance, transportation etc.	Per Annum
---	--	-----------

Please note that description given in the e-tendering web site is not complete due to paucity of words. Please refer un-price bid of Part-1 for full description.

Place

Date

Seal and Signature of the Tenderer

**Reserve Bank of India
Estate Department, Nagpur**

Tender Part-II (Price bid)

Design, Supply, Installation, Testing and Commissioning of 160 KWp (4 Nos X 15 KWp + 2 Nos. X 50 KWp) Roof Top Grid Interactive SPV based Solar Power Systems (Mono PERC) in MOB, AOB, Bank's ALSQ, ARSQ, TRSQ and BTOQ at Nagpur

Sr. No.	Description of the work	Qty.	Unit	Rate	Amount
A	Design, manufacture, supply, installation, Testing and Commissioning of total of 160 KWp capacity grid interactive SPV based Solar Power System as per the following different locations mentioned in serial number i, ii, iii, iv, v & vi placed below. The system shall have guaranteed annualized AC energy output of 1400 Kilo watt hour (KWH) per year per KWp during the first ten years of operation and as specified in part I of the tender. The rate shall include for all the material required including required quantities of SPV modules formed into arrays, their mounting arrangement, power conditioning units, required DC & AC distribution panels with surge protection units, data loggers along with PC based arrangement for system performance monitoring through licensed software, metering safety arrangements, civil works, training etc. as defined in Part I of the tender to provide a composite operational system. The work shall include supply, installation, testing and commissioning of the required number of G.I. pipe earthing stations (minimum 3 Nos. earthing per power plant) as per IS 3043:2018 and 25 x 3 mm G.I. earth strip on wall/ ceiling/existing trenches/earth, of required length, necessary spacers and saddles at 300 mm interval. The rate shall also include the supply, installation, testing and commissioning of ACDB & DCDB having MCBs of required capacity near the inverter and power cable of required size for transferring the power generated by above solar system from the terrace / inverter to				

	the switch available near the existing meter panel. The rate shall include for all the taxes, duties, levies, insurance, transportation, loading unloading of the material etc.				
i	50 KWp at Annex Building, Main Office Building, Nagpur	1	Set		
ii	50 KWp at Additional Office Building, Nagpur	1	Set		
iii	15 KWp at Atrey layout staff Quarters F Block terrace, Nagpur	1	Set		
iv	15 KWp at Byramji town Officers Quarters F Block Terrace, Nagpur	1	Set		
v	15 KWp at Telangkhedhi road staff Quarters, F Block Nagpur	1	Set		
vi	15 KWp at Amravati road Quarters, C Block Nagpur	1	Set		
	Total inclusive of all taxes and charges etc				

B	Comprehensive annual maintenance charges for solar plant as mentioned in Serial I, ii, iii, iv, v & vi as above for periodic maintenance/servicing of complete system including providing all spare parts/ tools/ consumables for servicing as required as per good engineering practice, recommendation(s) of the respective equipment manufacturer(s) and instructions of engineer-in-charge as per the scope of work in Part I of the tender. The rate shall include for periodic recharge of sim of the system and monthly cleaning of the solar panels. Rate shall also include for replacing the faulty equipment such as solar panels, inverter etc. including weather monitoring device, remote monitoring system. The rate shall be applicable after one-year defect liability period/warranty of entire unit. The rate shall include for all the taxes, duties, levies, insurance, transportation etc.	Per Annum		
---	---	-----------	--	--

Please note that description given in the e-tendering web site is not complete due to paucity of words. Please refer un-price bid of Part-1 for full description.

Place
Date

Seal and Sign