



NAME OF THE TENDERER: \_\_\_\_\_

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Please do not detach any papers from this booklet.  
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**CANARA BANK  
PREMISES & ESTATE SECTION  
CIRCLE OFFICE  
2<sup>nd</sup> Floor, Kaushalya Chambers,  
PP Compound, Main Road, Ranchi,  
Jharkhand-834001,  
Phone No. 0651-2330857**

COMPETITIVE TENDER DOCUMENT  
FOR

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**SUPPLY OF SOLAR POWER FROM OFF GRID ROOFTOP SOLAR PV POWER  
PLANTS (OPEX MODEL).**

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**THIS TENDER CONSISTS OF 2 BIDS:**

PART I : TECHNICAL AND COMMERCIAL BID  
PART II : PRICE BID

## **PART-I TECHNICAL AND COMMERCIAL BID**

**(To be submitted in sealed envelope marked  
“Envelope No. 1- Technical & Commercial Bid”)**

### **NOTICE INVITING TENDER (NIT)**

**Canara Bank, P&E Section, Circle Office, 2<sup>nd</sup> Floor, Kaushalya Chambers, PP Compound, Main Road, Ranchi, Jharkhand-834001, Phone No. 0651-2330857, invites sealed tender for the works mentioned below:**

- 1). Name of the work: Supply of solar power to the electrical connected branch loads from OFF Grid Rooftop Solar PV Power Plants (OPEX Model) at Branches coming under Ranchi, Circle.
- 2). EMD AMOUNT: Rs.5,000/- by way of Demand Draft of a scheduled bank drawn in favour of **"Canara Bank" - payable at Ranchi** - or by way of Bank Guarantee obtained from any Scheduled Bank other than Canara Bank valid upto validity period of the tender in the Bank's approved format (in a separate sealed cover), super-scribing 'EMD for Tender for Supply of solar power from OFF Grid Rooftop Solar PV Power Plants (OPEX Model) at Canara Bank Branches coming under Ranchi Circle and the same should be submitted along with Technical & commercial bid. However, those who have exemption certificate from NSIC/Similar Government authorities as per provision of MSME Act will be exempted from submission of EMD subject to the submission of valid document/certificate to that effect.
- 3). TIME OF COMPLETION: 60 days from the 14th day from the date of work order issued by the Bank.
- 4). CONTENTS OF THE TENDER::

### **PART - I**

- Notice inviting tender
- Check List for Enclosures
- Appendix-I - Eligibility criteria for qualification for opening of price bid
- Appendix-II - Important terms and conditions of the contract
- General rules and instructions for the guidance of the tenderer
- Tender offer, Letter of acceptance, Form of agreement, Indemnity Bond format and Bank Guarantee format

- General Conditions of the Contract
- Safety Code
- Schedule A - Special information to the tenderers
- Schedule B - Special instructions to the tenderers
- Schedule C- Technical specifications
- Profile of the Vendor
- Technical particulars to be furnished by the Vendor
- Unpriced format of Price bid

The above form the **first envelope** under caption "**Technical and Commercial bid**"

**PART - II**

**Price bid - Second Envelope**

5). Concept of tender:: The tender concept is "2 Envelope Concept"  
Second envelope - 2 - Price bid

Both bids should be submitted on the same date & time but in separate envelopes,  
sealed and super-scribed the name of the work on the envelope.

6). Submission of tender:: The original tender copy issued should be submitted in the respective envelopes.

7). Date of submission: Sealed envelopes to be submitted on or before **15.12.2018**

8). DATE OF OPENING: Technical Bid & Commercial bid will be opened on **18.12.2018**.  
Opening of Price Bid will be duly notified after evaluation of technical bids.

**ASSISTANT GENERAL MANAGER  
CIRCLE OFFICE, RANCHI**

**PLACE: RANCHI**

**Date:**

**Checklist for Enclosures (Vendor should fill up YES or NO without fail)**

	<b>Bid Enclosures</b>	<b>YES or NO</b>
1.	Whether the Tender is submitted in <b>Two covers Technical Bid and Price Bid?</b>	
2.	Whether Two covers along with EMD cover in Technical Bid are put into an outer cover?	
<b>3.</b>	<b>Whether Technical Bid (Envelope- A) contains the following</b>	
3.1	Vendor’s undertaking covering letter in the Letter Head shall be signed by the authority, stamped and submitted.	
3.2	Signed and stamped Letter of Authorization or Power of Attorney for signing the Tender document shall be submitted.	
3.3	All sections covered in the Tender document in full shall be signed by the authority, stamped and submitted	
3.4	Earnest Money Deposit (EMD) amount as specified in the Tender shall be submitted	
3.4a	In case of claiming exemption from EMD, valid document/ certificate for exemption of EMD from NSIC/Similar Government authorities shall be submitted	
3.5	Filled up Technical Bid and Profile of Vendor shall be signed by the authority, stamped and submitted	
3.6	Unfilled price bid format shall be signed by the authority, stamped and submitted	
3.7	All supporting documents for proving the Eligibility Criteria shall be signed by the authority and stamped in all pages	
<b>3.8</b>	<b>Supporting documents to meet the Eligibility Criteria</b>	<b>YES or NO</b>
	a) All the supporting documents to meet the Eligibility Criteria as laid down in the Tender under Eligibility Criteria shall be signed by the authority and stamped	
	b) Vendor’s Certificate of Incorporation or Registration	
	c) Balance Sheet and Profit & Loss accounts for the past three year should be submitted.	
	g) Clientele list for the SPV power plants installed	
<b>4.</b>	<b>Whether Price Bid (Envelope-B) contains the following</b>	
	a) Filled Price Bid with signature and stamp in all headings shall be submitted	
	b) Whether corrections or overwriting if any is attested?	
5.	Pre Contract Integrity Pact	

Checklist should be enclosed in technical bid

- **SIGNATURE OF THE TENDERER**

**APPENDIX-I - ELIGIBILITY CRITERIA FOR QUALIFICATION FOR OPENING OF PRICE BID**

S.No	Criteria	Documents Required
1.	The Vendor empanelled with MNRE ( <i>Ministry of New and Renewable Energy</i> ) are only eligible.	Valid Empanelled Document proof.
2.	The firm should have minimum turnover of Rs. 1 Crores for last three financial years (ie., 2018-17, 2017-16, 2016-15)	Turnover details or Audit reports
3.	The firm should have carried out the works as follows: 1) at least three (3) completed similar works each of Capacity more than <b>2KWp</b> during <b>the last 3 (Three) years ending with 31.03.2018.</b> <b>OR</b> 2) at least two (2) completed similar works each of Capacity more than <b>4KWp</b> during <b>the last 3 (Three) years ending with 31.03.2018.</b> <b>OR</b> 3) for at least one(1) completed similar works each of Capacity equal or more than <b>6 KWp</b> during <b>the last 3 (Three) years ending with 31.03.2018.</b> Similar work means <b>supply and installation of solar power plants(offgrid type)</b>	Order copies and satisfactory completion certificates clearly indicating the cost & nature of work handled.
4.	The firm should have Service setup at Jurisdiction.	Details of service setup
5.	The firm must have <b>service tax registration</b> number and PAN number.	Copies of the GST certificate and PAN card copy shall be enclosed.

The tenderers are requested to submit all the documents required for stipulated eligibility criteria at the first instance itself. **Tenders which do not contains the documents required for stipulated eligibility criteria of the tender are liable to be summarily rejected without issuing any notice.**

**SIGNATURE OF THE TENDERER WITH SEAL**

**APPENDIX II - IMPORTANT TERMS AND CONDITIONS OF THE TENDER**

Time of Completion	60 days from the 14 <sup>th</sup> day from the date of work order issued by the Bank.
Date of commencement	14 <sup>th</sup> day from the date of issue of work order.
Liquidated damages for delay	The sum at the rate of 0.5 % of the Contract Value per week of delay subject to a maximum limit of 5 % of the Contract Value.
Payment terms	No mobilization advance amount will be paid to the firms.  The payments will be commenced after installation and successful working of the solar power plants at Bank's rooftop with mutual agreement.
Deductions for Non Performance of Solar System	<b>Rs. 2000/- per day for each non availability of requisite power supply to the branch on account of failure or non performance of the supplied solar equipments. This period will be calculated after expiry of Autonomy period of the system.</b>
EMD	<b>Rs. 5,000.00 by way of Demand Draft</b> of a scheduled bank drawn in favour of "Canara Bank" payable at Ranchi or by way of Bank Guarantee obtained from any Scheduled Bank other than Canara Bank valid upto validity period of the tender in the Bank's approved format. However, those who have exemption certificate from NSIC/Similar Government authorities as per provision of MSME Act will be exempted from submission of EMD subject to the submission of valid document/certificate to that effect.
Initial Security deposit	As per the clause 12 of "General conditions of the Contract"
Arbitration	As per the clause 40 of "General conditions of the Contract"

Note: Request for alteration in the commercial terms of the tender will not be entertained. Tenders which do not comply the Commercial terms of the tender are liable to be summarily rejected.

**SIGNATURE OF THE TENDERER WITH SEAL**

**GENERAL RULES AND INSTRUCTIONS FOR THE GUIDANCE OF TENDERER**

1. Sealed Tenders are invited from the Vendor as System Integrator and/ or OEMs by Canara Bank, Ranchi Circle Office hereinafter known as the Employer and also as Bank, for Supply of Solar Power from OFF Grid Rooftop Solar PV Power Plants (OPEX Model) at selected Canara Bank Branches under Ranchi Circle Office.

**SCOPE OF WORK:**

SI No	Item	Description Details
1	Location of the Buildings/Delivery Points	Canara Bank Branches under Ranchi Circle within Jharkhand <u>OR</u> as per requirement of the bank.
2	Minimum Bid Requirement	1) Minimum 9 Hr. Power supply from Off Grid Solar Power Plant to run all the electrical connected load in the Branches 2) Min. Autonomy period of the system should be 3 days.
3	Approx Branch Electrical Connected Load	<b>3KW-10KW depending on the nature/size of the branch</b>
4	Contracted Capacity	The Contract/ Agreement shall be valid for a period of 5 years from date of supply of solar power (Electricity) at Bank's Side/Delivery points.  Canara Bank at its option may extend the contract on mutually agreed tariff, terms and conditions or float a fresh tender at its absolute discretion and this does not constitute a commitment on the part of the bank for the extension of contract.
5	Scheduled Delivery Date	60 days from the 14 <sup>th</sup> day from the date of work order issued by the Bank.
6	Delivery Points	Canara Bank Branches under Ranchi Circle within Jharkhand OR as per requirement of the bank.
7	OPEX Model under Solar Rooftop Plants	The Vendor shall be responsible for supply, installation, testing and commissioning, periodic maintenance, attending to the service call request from the branch and replacement of spare parts for solar rooftop system with all necessary accessories (i.e Electrical/Electronic components) including obtaining No Objection Certificates (NOC) and other liaison works with all concerned statutory and Non-statutory agencies like SEBs, distribution companies, load dispatch centers etc. during the term of the contract.  The Vendor shall make agreements for providing suitable Energy Metering and interconnection with existing system

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		at their costs including testing, calibration, maintenance, renewal and repair of meters at Bank's side/ Delivery Points.
<b>8</b>	Priority for supply of power to the Branch	The Proposed system is intended to power the electrical equipments of the branch including ATM with solar energy during the day time. In case of any failure in providing the power due to bad/ insufficient sunlight, power should be available through adequately installed Battery Bank. The power supply through conventional Mains electric supply will be on last priority.

2. Tender documents consisting of specifications, schedule of quantities of the various items of work to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents will be send through registered post.

3. The tender concept is "TWO ENVELOPE CONCEPT" and it has to be submitted as such. It should be always be placed in sealed cover, with the name of the project written on the envelope mentioning "Technical and Commercial Bid" and "Price Bid" as the case may be and submitted in two different sealed envelopes simultaneously on the prescribed date and time mentioned in the Notice Inviting Tender (NIT) to the DEPUTY GENERAL MANAGER, PREMISES & ESTATE SECTION, CIRCLE OFFICE.

The date for opening the price bid will be intimated subsequently only to such firms whose technical bids are found suitable. The TENDERER is requested to participate during the opening of the tender.

3.1. The two envelope are classified as,  
 (1). The Technical & Commercial Bid and  
 (2). The Price Bid.

3.2. The first envelope super-scribed as "Technical & Commercial Bid" should be submitted in a sealed envelope containing all the following details:

i). All the schedules of the tender document, tender drawings if any & technical & commercial details of the proposed system equipment with its components & all other attachments other than the Bill of Quantity (Price Bid).

ii). The tender,(i.e. in the envelope containing the Technical Bid) shall be accompanied by earnest money of Rs. 5,000.00/-(Rupees Five Thousand only) by way of Demand Draft of a Scheduled Bank issued in favour of "Canara Bank" payable at Ranchi. However, those who have exemption certificate from NSIC/Similar Government authorities as per provision of MSME Act will be exempted from submission of EMD subject to the submission of valid document/certificate to that effect.



**No interest shall be allowed on the Earnest Money. Tenders without Earnest Money shall be rejected.**

SUBMISSION OF THE EMD IN THE PRICE BID ENVELOPE SHALL RENDER THE TENDER BEING REJECTED ON THE GROUNDS OF NON SUBMISSION OF THE EMD.

4. The second envelope super scribed as "Price Bid" should be sealed and submitted on the same given date and time simultaneously along with technical & commercial bid. Non submission of the same along with technical and commercial bid shall automatically render the entire tender being rejected. This envelope should contain duly filled in Bill of quantities (enclosed in the tender document) with values written in words and figures, and as detailed elsewhere in the tender documents.

5. The time allowed for carrying out of the work will be not exceeding the period specified in the NIT.

6. The contractors should quote in figures as well as in words the rate, and amount tendered by them. The amount for each item should be worked out and the requisite totals given. **The rates quoted shall be all inclusive rates for the item of work described, including materials, labour, tools & plant, carriage & transport, supervision, overheads & profits, mobilising and other charges whatsoever including any anticipated or un-anticipated difficulties etc. complete for proper execution of the work as per drawings and specifications and no claim whatsoever for any extra payment shall be maintainable.**

7. When a contractor signs a tender in an Indian language, the percentage above or below and the tendered amount and the total amount tendered should also be written in the same language. In the case of illiterate contractors the rates or the amounts tendered should be attested by a witness.

8. Issue of tender form / documents is as per the NIT.

9. The acceptance of a tender will rest with the Employer which does not bind itself to accept the lowest tender, and reserves to itself the authority to reject any or all of the tenders received without assigning any reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.

10. THE EMPLOYER RESERVES THE RIGHT TO ACCEPT THE TENDER IN FULL OR IN PART AND THE TENDERER SHALL HAVE NO CLAIM FOR REVISION OF RATES/OTHER CONDITIONS IF HIS TENDER IS ACCEPTED IN PART.

11. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.

12. All rates shall be quoted on the proper form of the tender alone. Quoted rates and units different from prescribed in the tender schedule will be liable for rejection.

13.1 Special care should be taken to write the rates in figures as well as in words and the amounts in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the words 'Rs.' should be written before the figure of rupees and words 'P' after the decimal figures, e.g. Rs.2.15 "P" and in case of words, the word 'Rupees' should precede and the word 'Paise' should be written at the end, unless the rate is in whole rupees and followed by the words 'only' it should be invariably be up to two decimal places. While quoting the rate is in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line. However, if a discrepancy is found;

- i). the rates which correspond with the amount worked out by the tenderer shall unless otherwise proved be taken as correct. (OR)
- ii). if the amount of an item is not worked out by the tenderer or it does not correspond with the rates written either in figures or in words then the rate quoted by the tenderer in words shall be taken as correct. (OR)
- iii). where the rates quoted by the tenderer in figures and in words tally but the amount is not worked out correctly, the rates quoted by the tenderer will unless otherwise prove be taken as correct and not the amount.

13.2 In the case of any errors or omissions in the quoted rates, and if the tender is issued in duplicate, the rates quoted in the tender marked "Original" shall be taken as correct rates.

13.3 All corrections such as cuttings, interpolations, omissions and over-writings shall be number as 'c', 'i', 'o' and 'ow' and initialed and total of such c, i, o and ow on each page certified at the end of the page with grand total at the end of the bill/schedule of quantities.

14. An item rate tender containing percentage below / above will be summarily rejected. However, where a tenderer voluntarily offers a rebate for payment within a stipulated period, this may be considered.

15. Goods & Service Tax, Sales tax, service tax, work contract tax, or any other tax , any royalties, import duty, other duties if any, levies, cess, entry tax, Octroi, profession tax, Sales Tax, purchase tax, turnover tax, or any other tax on material or finished work in respect of this contract shall be payable by the tenderer and the Employer will not entertain any claim whatsoever in respect of the same, and nothing extra shall be paid/reimbursed for the same subsequently **with exception specified in the clause 8 of the General Conditions of the contract of this tender.**

16. The contractor shall give a list of his relatives, if any, working with the Employer along with their designations and addresses.

17. No employee of the employer is allowed to work as a contractor for a period of 2 years of his/her retirement from the employer services, without the previous permission of the employer. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of the employer as aforesaid before submission of the tender or engagement in the contractor's service.

18. The tender for the works shall remain open for acceptance for a period of 90 days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or makes any modifications in the terms and conditions of the tender which are not acceptable to the Employer, then the Employer shall, without prejudice to any other right or remedy, be at liberty to forfeit full value of the earnest money as aforesaid.

19. The tender for the work shall not be witnessed by a contractor or contractors who himself / themselves has / have tendered or who may and had/have tendered for the same work. Failure to observe this condition would render tenders of the contractors tendering as well as witnessing the tender liable to summary rejection.

20. It will be obligatory on the part of the tenderer to tender and sign the tendered documents for all the component parts and that, after the work is awarded, he / they will have to enter into an agreement for each component with the competent authority of the Employer. Further the tenderer shall agree that until a formal agreement on stamp paper and signed, this tender shall constitute a binding contract between the tenderer and the Employer.

21. The tenderer, apart from being a competent contractor must associate himself with agencies of appropriate class who are eligible to tender for other related works connected directly or indirectly with the contract and employed by the employer.

- 22.1. The Employer does not bind itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- 22.2 Tenderer are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the site and dimensions, the means of access to the site, and obtain all necessary informations as to risks, contingencies and other circumstances which may influence or affect their tender.
- 22.3 A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors bearing on the execution of the work.
23. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Employer shall be communicated to the Employer.

**24. Method of Evaluation of tender:** All the competitive tenders will be received on the specified date and time. On the same day or on specified date & time in event of any compelling circumstances, the tender will be opened in the presence of the available tenderer.

24.1 Both the envelope superscribed as " Technical & Commercial Bid" and "Price Bid " will be simultaneously accepted, but the envelope superscribed as "Technical & Commercial Bid " alone will be opened and details of EMD etc., shall be recorded, while the Price Bid shall be maintained in the safe custody of the Employer.

24.2 Incomplete offers and offers not accompanied by the mandatory documents and EMD shall be rejected.

24.3 After the technical evaluation, such of those tenderer found technically acceptable will be short listed and their envelope containing " Price Bid " shall be opened on a given date and time in presence of the short listed tenderers with prior notice to them. The tenderers are expected to attend the tender opening and their inability in participating will not in any way prevent the employer undertaking the opening of the bids.

24.4 During the course of technical evaluation if found necessary the Employer may seek supplementary price bids to bring the evaluation at par and any such price bids shall be prepared as stated in the tender and submitted in sealed envelopes superscribing "Supplementary Price Bid for the project of .....". Such supplementary price bid shall be opened simultaneously with the original price bid on the prescribed date and taken into consideration in its evaluation.

24.5 Voluntary submission of the supplementary price bid by the contractor / tenderer shall not be accepted and supplementary bids shall be limited to the details sought for by the Employer only. Any other un-related price variations furnished in supplementary price bids shall not be recognised and might be liable for rejections if undue information are furnished.

24.6 In case of other un-successful tenderers, the sealed Price bid along with EMD shall be returned treating it individually. The Employer reserves the right to accept or reject any of the offer's without assigning any reason and no dispute or negotiation will be entertained in this regard. The Employer's decision will be final in the matter.

25. The notice inviting tender, general rules & instructions for the guidance of tenderers shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 14 days from the stipulated date of start of the work sign on a stamp paper the contract consisting of :-

(a) Standard form of Agreement on stamp paper.

(b) Notice inviting tender, all the documents including tender, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto. General Conditions, Schedules leading to Technical Specification, Special Conditions, Technical Brochures in schedules submitted by the tenderer etc.,

(c) Price Bid / Schedule Bill of Quantities.

**TENDER - OFFER**

I/We have read and examined the Notice Inviting Tender, prequalification criterion, proforma filled in by the successful Contractor, Schedules, Specifications Applicable, Drawings and Designs, General Rules and Instructions, General Conditions of Contract, Special conditions, Schedule (Bill) of quantities in Price Bid, and all other documents referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work and supply of solar power specified for the Employer within the time specified at the rates specified in the attached Price Bid viz., schedule of quantities and in accordance in all respects with the specifications, designs drawings and instructions in writing referred to in the General Rules and Instructions, General Conditions of Contract and in all respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **90 (Ninety days)** from the due date of submission thereof and not to make any modifications in its terms and conditions. A sum of Rs 5,000.00 is hereby forwarded as earnest money in form of Demand Draft of Rs 5,000.00 (Name of the issuing Schedule Bank) bearing no..... and date . .....

In the event of my / our failure to commence the work on the specified date after award I/We agree that the Bank shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely otherwise the said earnest money shall be retained by it towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

I/We hereby declare that I/We treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any persons other than a person to whom I/We am /are authorised to communicate the same or use the information in any manner prejudiced to the safety of the State / the Employer.

I/We fully understand that you are not bound to accept the lowest or any tender you may receive. Shri. \_\_\_\_\_, Partner/Proprietor/Authorised representative of the Company, is the person authorised to negotiate commercial, technical terms & conditions & sign on behalf of the firm any Agreement, Bills & receipts for this work.

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(OPEX MODEL) AT CANARA BANK BRANCHES UNDER RANCHI CIRCLE OFFICE.

I/We agree that until a formal agreement on stamp paper is prepared and signed, this tender with your written acceptance thereof shall constitute a binding contract between us.

Dated the: .....day of ..... 2018

Witness,	Name	Signature of Contractor	&	address:
Full Postal Address including				
		Pin Code NO.....		& Telephone NO.

1).

2).

**ACCEPTANCE**

The above tender (as modified by us or negotiations as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Employer for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_)

The letters referred to below shall also form part of this contract agreement:

- a)
- b)
- c)

Dated this \_\_\_\_\_ day of 2018

For & on behalf of the Employer

Signature : \_\_\_\_\_

Designation: \_\_\_\_\_



**GENERAL CONDITIONS OF CONTRACT**

Except where provided for in the description of the individual items in the schedule of quantities and in the specifications and conditions laid down hereinafter and in the Drawings, the work shall be carried out as per standard specifications and under the direction of the Employer.

**1. DEFINITIONS / INTERPRETATIONS :-**

i). The 'Contract' means the documents forming the tender and acceptance thereof and the agreement duly executed between the Employer and the Tenderer, together with the documents referred to therein including those conditions, the specifications, schedule of quantities, tender agreement, designs, drawings and instructions issued from time to time by the Engineer-in-Charge. All these documents taken together, shall be deemed to form one contract and shall be complementary to one another.

ii). In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them :-

a) The 'Firm', 'Tenderer' or 'Supplier' or 'Contractor' shall mean the individual Kartha, or Manager of HUF, firm or Company, whether incorporated or not, undertaking the works and shall include the legal heirs/representatives of such individual or the partners composing firm and their legal heirs and successors, or company's authorised and constituted attorneys/agents and permitted assignees of such firm or company.

b) The 'Employer' or 'Bank' or 'Purchaser' means any officer of the Canara Bank, who is specifically authorised to enter into contracts in respect of the above works.

c) The 'Consultant' means the specialized Consultant/agency appointed by the Bank for the project i.e, \_\_\_\_\_NA\_\_\_\_\_. The 'Engineer-in-Charge' means the Senior Manager, or Officer, / Engineer and/or Site Engineer who shall supervise and be in-charge of the work or any other authorised representative or person specifically deputed by the Employer wherever they are employed from time to time by the Employer.

d) "Contract Value" shall mean the final accepted rates in the Price Bid

e) `Date of Contract' means the `Calendar date on which the Employer and Contractor have signed the Agreement on the Stamp Paper.

f) "Accepting Authority" shall mean the Assistant General Manager, Canara Bank, Circle Office, Ranchi.

'Approval' wherever used in the specifications or schedule of Quantities shall mean, respectively, approved by or approval of the `Accepting Authority' in writing.

g) `Appellant Authority' shall mean The Deputy General Manager, Circle office, Ranchi of the Bank (the Employer). Who shall also be the authority to consider any extension of time or compensation as defined in clause hereunder.

h) `Notice in writing' or `written notice' shall mean a notice in writing typed or printed characters delivered to or sent by registered post to the last known address private or business address or registered office address, and shall be deemed to have been received when in ordinary course of post it would have been delivered, and/or delivered personally, or otherwise proved to have been received.

i) `virtual completion' shall mean that the work/installation is complete in all respects in the opinion of the Employer and for which the completion/clearance certificate has been issued by the Engineer -in-charge and the installation is fit for usage.

j) `Drawings' shall mean all drawings and/or design drawings furnished by the tenderer / sketches duly signed by the authorised Engineer-in-charge on behalf of the Employer before commencement or during the progress of the work.

k) `Letter of Acceptance' shall mean an intimation by a letter issued by the Accepting Authority of the Employer to tenderers that his tender has been accepted in accordance with the provisions in the said letter.

l) "Warranty period" or "Defect Liability period (DLP)" shall mean a period of 1 year from the certified date of virtual completion issued by the Engineer-in-charge and accepted by the Employer.

m) "Site" shall mean the branches coming under Ranchi Circle where the solar power plant is to installed and commissioned as per tender by the employer for the firm's use.

**2. SCOPE OF WORKS TO BE CARRIED OUT::**

2.1 The work consists of the contractor's own design based on MNRE standard and central/state Government Approved Specifications. The contractor/ supplier shall be responsible for its functioning according to the design criteria and its parameters. Notwithstanding the details furnished, any discrepancies shall be brought out in the technical bid highlighting the shortcomings and suggest modifications.

2.2 The Vendor shall be responsible for supply, installation, testing and commissioning, periodic maintenance and replacement of spare parts for solar rooftop system with all necessary accessories (i.e Electrical/Electronic components) including obtaining No Objection Certificates (NOC) and other liaison works with all concerned statutory and Non-statutory agencies like SEBs, distribution companies, load despatch centers etc. during the term of the contract. The Vendor shall be responsible for scheduling of power at both ends (Generating and Receiving ends).

2.3 The Vendor shall make agreements for providing suitable Energy Metering and interconnection with existing system at their costs including testing, calibration, maintenance, renewal and repair of meters at Bank's side/ Delivery Points.

2.4 The work to be carried out under the contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works.

2.5 The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawing being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.

2.6 If there are varying or conflicting provisions made in any one or more document(s) forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on contractor.

2.7 Any error in description or any omission there from shall not vitiate the Contract or release the contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the Contract.

3. The work shall be carried out at above mentioned Branches coming under Ranchi Circle. The Intending tenderer shall visit the site and make himself thoroughly

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acquainted with the local site conditions, nature and requirements of works, facilities of transport condition, effective labour and materials, access and storage for materials and removal of rubbish. The tenderer shall provide in his tender cost of carriage, freight and other charges as also for any special difficulties and including police restriction for transport etc. for proper execution of work as indicated. The successful tenderer will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site condition which existed before the commencement of the work or which in the opinion of the Employer might be deemed to have reasonably been inferred to be so existing before commencement of work. Work shall be carried out through qualified engineer/supervisor with appropriate license as per statutory rules.

#### **4. TENDERS ::**

4.1 The entire set of tender document issued to the tenderer should be submitted fully priced and also signed on the last page of respective chapter (this shall be acceptance of all the pages of the tender and its stipulations) together with initials on every page. Notwithstanding this, Initials / signature in every page will indicate the acceptance of the tender papers by the tenderer. (Also refer point no.15 of General Rules & Instruction for guidance of tenderers)

4.2 No modifications, writing or corrections can be made in the tender papers by the tenderer, but he may at his option offer his comments or modifications in a separate sheet of paper attached to original tender papers.

4.3 The tenderers should note that the tender is strictly on item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting.

4.4 If called upon by the Employer, detailed analysis of any or all the rates shall be submitted. The Employer shall not be bound to recognize the contractor's analysis.

4.5 The Tenderer shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the price bid, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

## **5. SIGNING OF CONTRACT & AGREEMENT::**

5.1 The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 14 days from the stipulated date of start of the work sign the contract consisting of :-

- a) Standard form of agreement on stamp paper, the notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
- b) Standard tender form consisting of:
  - i) Notice inviting tender, eligibility criteria, General Rules and Instructions.
  - ii) General Conditions of contract and clauses of contract along with Annexures thereto, like specification, special conditions etc.
  - iii) Bill of Quantity and Price Bid.

5.2 Contractor shall sign an Indemnity Bond in Bank's approved format (FORMAT ATTACHED) before starting the work, indemnifying the Bank from any damages, prosecution, other legal suits and claims arising out of any mishaps occurring at the site due to faulty work, non fulfilling safety precautions, faulty construction and for violating any statutory rules and regulations for which the contractor shall be solely responsible.

5.3 The contractor shall pay for all stamps and legal expenses, incidental thereto.

## **6. PERMITS AND LICENCES::**

6.1 Permits and licenses for the release of materials or its purchases which are under Government control will be arranged by the contractor. It may be clearly understood that no compensation or additional charges can be claimed by the contractor for non-availability of such materials in due time on this account or according to his own requirements.

6.2 The contractor may, however, be eligible to a proportionate extension of time on this account which in the opinion of the Employer is reasonable.

## **7. GOVERNMENT AND LOCAL RULES::**

The contractor shall conform to the provisions of all local bye-laws and acts relating to the work and to the regulations etc. of the Government and Local Authorities and of any Company whose system and design is proposed to be connected / utilised. The cost, if any, shall be deemed to have been included in his quoted rates, taking into account all liabilities and shall indemnify the Employer against such liabilities and shall defend all actions arising from such claims or liabilities.

## **8. TAXES AND DUTIES ::**

The tendered cost must include all duties royalties, cess and sales tax or any other taxes or local charges if applicable. No extra claim will be entertained with exception herein specified below.

i). The tenderers must include in their tendered cost all duties royalties, cess, Work contract tax, Goods & Service Tax, Service tax and sales tax or any other taxes or local charges like octroi etc. No extra claim on this account will in any case be entertained. However, pursuant to the Constitution ( Forty Sixth Amendment) Act, 1982, if any further new tax, royalties cess or levy is imposed by Statute, and any Central Excise Duty by the Central Government on the Main Equipment and not on any type of sub-components or material involved in its manufacture or on installation materials like piping or electrical cabling, its switch gears etc., after the date of receipt of tenders, and the contractor there upon necessarily and properly pays such taxes / levies the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the Employer ( whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor. On account of any downward revision of such taxes / levies, the benefit shall be passed on to the Employer and shall be binding on the contractor even without the claim by the Employer.

ii). The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorised representative of the Employer and / or the Engineer-in-charge and further shall furnish such other information / document as the Employer may require from time to time.

iii). The contractor shall, within a period of 30 days of the imposition of any such further tax / levies, described above, give a written notice to the Employer that the same is given to pursuant to this condition, together with all necessary information relating thereto.

For this purpose the tenderers are requested to furnish the present tax structures separately with the Technical and commercial bid.

9. No optional items should be quoted in the tender.

**10. OTHER PERSONS OR AGENCIES ENGAGED BY THE EMPLOYER::**

The Employer reserves the right to execute any part of the work included in this contract by other agency or persons and contractor shall allow reasonable facilities and

use of his facilities for the execution of such work. The main contractor shall extend all co-operation in this regard.

Wherever the work is proposed in co-ordination with other agencies, the contractor shall co-operate with the schedule of works in such a manner as worked out by the Architect / Engineer-in-charge of the Employer.

#### **11. EARNEST MONEY & TOTAL SECURITY DEPOSIT::**

Earnest Money Deposit: The tenderer will have to deposit the specified amount of earnest money as detailed in the notice inviting tender at the time of submission of tender. However, those who have valid registration with MSME as on the date of submission of bids are exempted from payment of EMD. However, those who have exemption certificate from NSIC/Similar Government authorities as per provision of MSME Act will be exempted from submission of EMD subject to the submission of valid document/certificate to that extent.

No interest will be paid on the earnest money. The earnest money of unsuccessful tenderers will be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of the tender.

The successful tenderer to whom the contract is awarded will have to deposit as initial security deposit (including the Earnest Money) a further sum to make up 10 % of the value of the accepted tender. The initial Security Deposit will have to be made within 14 days from the date of acceptance of tender, failing which the Employer at his discretion, without prejudice to any other rights/remedies available under the terms of this Contract may revoke the letter of acceptance and forfeit the Earnest money deposit furnished along with the tender. The initial Security Deposit will not yield any interest & shall be held at Bank's end for the duration of the contract period. It shall be refunded to the contractor without any interest within fourteen days after the issue of certificates of virtual completion, after deducting any sum due from the contractor on any account under this contract.

#### **12 CONTRACTOR TO PROVIDE EVERY THING NECESSARY::**

i). The contractor shall adhere to central/ state government for the proper execution of the work according to the intent and meaning of the design parameters, technical specifications, drawings and schedule of quantities. Based on the details furnished in the Notice Inviting Tender The contractors should undertake their own assessment and design the plant and system required. If the contractor finds any discrepancies furnished it shall immediately brought to the notice of the Employer.

- ii). The tenderer shall take full responsibility for adequacy, suitability and safety of all the design, works and methods of design / installation.
- iii). The employer shall on no account be responsible for the expenses incurred by the contractor during the progress of work at site, towards any incidental expenditure like medical amenities to the workers at site, security arrangement etc. The employer shall not be responsible for the safety of the workers at site either on account of the works executed by the contractor or on account of the works executed by any other agency involved at that time.
- iv). The Employer on no account shall be responsible for storage of materials or loss or pilferage or theft either in respect of the material stored or material already built and paid for by the Employer.
- v). The contractor shall at all times give access to workers employed by the Employer.
- vi). All tools, equipments and other required facilities for execution of work shall be provided by the contractor.
- vii). Any facilities available at site shall be utilized only with prior permission of the Employer or the in-charge of the site / building owner and cannot be taken as granted and for such services utilises the Employer is entitled to charge at his discretion.

13.2 No extra charges shall be paid over and above what has been quoted for any of the above or for similar such services.

**13. TIME OF COMPLETION, EXTENSION OF TIME & PROGRESS CHART::**

- i). Time of Completion: 60 days from the 14th day from the date of purchase order issued by the Bank.

The entire work is to be completed in all respects within the stipulated period. The work shall be deemed to commence from the date of issue of purchase order from the date of acceptance letter or date of handing over site, whichever is earlier. Time is the essence of the contract and shall be strictly observed by the contractor.

The work shall not be considered as complete until the Employer have certified in writing that the work has been virtually completed and defect liability period shall commence from the date of such certificate.



**ii). EXTENSION OF TIME::**

(a) The time allowed for execution of the Works by the Contractor as specified or the extended time in accordance with these conditions shall be the essence of the Contract. If the contractor commits default in the execution of the work as aforesaid, the Employer shall without prejudice to any other right or remedy available in law be at liberty to forfeit the earnest money absolutely.

(b) Request for extension of time, to be eligible for consideration, shall be made by the contractor to the accepting authority in writing within fourteen days of the happening of the event causing delay. The contractor shall also, if practicable, indicate in such a request the total period for which extension is desired, overlapping period, if any, with earlier events causing delays.

(c) In such case the authority may give a fair and reasonable extension of time for completion of work. Such extension shall be communicated to the contractor by the Employer in writing, within 3 weeks of the date of receipt of such request. Non application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Employer and this shall be binding on the contractor.

(d) The decision of the Employer for an extension of time for completion hereunder ( which decision shall be final and binding on the contractor) shall be promulgated on completion of the work or at the conclusion of such events based on which the extension of time was sought by the contractor, and the Employer shall then, in the event of an extension being granted, determine and declare the final completion date. The provision in clause with respect to payment of Liquidated Damages shall, in such case, be read and construed as if the extended date fixed by the Employer were substituted for and the damage shall be deducted accordingly.

**iii). Progress of Work :**

During the period of work, the contractor shall maintain proportionate progress on the basis of a programme chart submitted by the contractor or prepared by the Engineer in charge whoever is responsible for such programme of work. Contractor shall plan for procurement of materials, equipments well in advance and reflect the same in a progress chart so that there is no delay on the part of the contractor in completion of the project. Maintenance and production of such records as and when required shall be the responsibilities of the contractor.

**14. LIQUIDATED DAMAGES::**

Time is the essence of the contract. Thus the tenderer shall be aware and take note that non-supply or commissioning of the equipment / system will affect the Banks

committed programs and thus the loss by way delayed services / completion of related works etc, are invaluable and cannot be easily assessed. Therefore, it is part of the agreed terms that in the event of any delay in completion of the work, the Bank is liable to charge the tenderer without the necessity of providing for any details of such losses suffered by the Bank.

14.1 If the contractor fails to maintain the required progress in terms of the contract or to complete the work and clear the site on or before the contract or approved extended date of completion, he shall, without prejudice to any other right or remedy of the Employer on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below or such smaller amount as may be fixed by the employer on the contract value of the work for every completed week that the progress remains incomplete.

14.2 For this purpose the term 'Contract Value' shall be value at the contract rates of the work as ordered / accepted and the Contract value does not include the AMC cost.

**If the Contractor fails to complete the works within the time for completion stated in the tender or within any extended time under Clause 14.ii hereof, the Contractor shall pay the Employer the sum at the rate of 0.5 % of the Contract Value per week of delay subject to a maximum limit of 5 % of the Contract Value as "Liquidated damages" for the period during which the said works shall so remain incomplete or the Employer may deduct aforesaid sum towards such damages from any monies due to the Contractor.**

15.3 The Employer shall have the right to adjust, / set-off against any sum payable to the contractor under this or any other contract with the Employer anywhere in India/outside India.

**15. TOOLS, STORAGE OF MATERIALS, PROTECTIVE WORKS AND SITE OFFICE REQUIREMENTS::**

The contractor shall provide, fix up and maintain his establishment in an approved position at site and clear away on completion of the works and make good all works disturbed. The contractor shall not fix or place any placards or advertisement of any description or permit the same to be fixed or placed in or upon any hoarding, gantry, building structure other than those approved by the Employer. No fixtures or materials to be placed in such a manner that can be considered dangerous to the installation and to the persons working or passing by or visiting the site.

15.1 **Storage of materials** :The contractors shall make use of existing facilities with due permission of the Employer for storage of materials at site, but watch & ward

arrangements for the safety of materials shall be the responsibility of the contractor. **Additional covered space required if any, shall be arranged at the tenderer's own cost in the open space identified/ear marked by the Bank.**

#### **16. NOTICE AND PATENTS OF APPROPRIATE AUTHORITY AND OWNERS::**

16.1 The contractor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the regulations and bye-laws of any authorities, and or other Companies ( Indian or International), and / or Statutory Authorities, with whose system and design or technical know-how are/were proposed to have connection with this work. So also the contractor shall before making any variations from the drawings or specification that may be associated to so conform, give the Employer written notices specifying the variations proposed to be made and the reasons for making them and apply for instruction thereon. The Employer on receipt of such intimation shall give a decision within a reasonable time.

16.2 The contractor shall arrange to give all notices required for by the said Acts, regulations or Bye-laws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Employer.

16.3 The contractor shall indemnify the Employer against all claims in respect of patent rights, royalties, damages to buildings, roads or members of public in course of execution of work and shall defend all actions arising from such claims and shall keep the Employer aloof and indemnified in all respects from such actions, cost and expenses.

#### **17. CLEARING SITE AND SETTING OUT WORKS::**

17.1 The site of work shown shall be cleared of all obstructions, waste materials, rubbish of all kinds. All material damages on the place of work on the walls, ceiling or flooring or any other connected equipments, materials or installations shall be re-done to maintain the originality and leveled at the contractors own cost.

17.2 The contractors shall set out the works and shall be responsible for the true and perfect setting out the works and for the correctness of the positions, levels, dimensions and alignment of all parts thereof. If at any time, any error shall appear during the progress of any part of the work, the contractor shall at his own expenses rectify such error, if called upon to the satisfaction of the Employer.

#### **18. FIXING, FASTENING OF EQUIPMENTS::**

18.1 The contractor is to fix the equipments on the floor by means of appropriate method so that such equipments fixed on to the floor shall not fall by its own or by natural movements of wind, air normal human operations and shall adopt the best engineering traditions and use appropriate tools in such operations.

18.2 The contractor while fixing any material or equipment to be suspended from the ceiling, shall use fasteners of suitable strength to hold the weight of the suspended system/equipment or material and such fasteners shall be fixed by means of power drills. The contractor shall not chip the ceiling unless ordered & approved by the Engineer- in-charge.

18.3 The contractor shall not puncture the existing civil structures like beams, columns and shall not undertake any type of activity which could affect the structural stability. He shall be responsible for any damages and costs in its rectification.

**19. CONTRACTOR IMMEDIATELY TO REMOVE ALL OFFENSIVE MATTERS ::**

All waste materials and other matters of any offensive nature shall be taken out once the works are completed. The contractor shall keep the works free from dangerous materials like industrial gases, welding machines and any such devices or material of toxic and poisonous nature shall not carry within the site or building any material which are explosive in nature. Any such offensive materials which are essentially required in course of work shall be undertaken with due written permission of the Employer provided such materials are permissible under Law.

**20. ACCESS ::**

Any authorised representatives of the Employer shall at all reasonable times have free access to the works and / or to the workshops, factories or other places where materials or equipments are being prepared or constructed for the work and also to any place where the materials are lying or from where they are being obtained, and the contractor shall extend necessary facility to the Employer or their representatives for inspection examination and testing of the quality & workmanship of the materials.

**21. MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS::**

21.1 All the works specified and provided for in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most workmanlike manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to

such other additional particulars, and instructions as may from time to time be given by the Employer during the execution of the work, and to his entire satisfaction. The works shall be executed with best workmanlike manner confirming BIS Specifications, Indian Electricity Act & Rules, Statutory norms prescribed by local bodies like SEBs, CEIG etc.

21.2 If required by the Employer, the contractor shall have to carry out tests on materials and workmanship in approved material testing laboratories or as prescribed by the Employer at his own cost to prove that the materials etc. under test conform to relevant I.S. standards or as specified in the specifications. The necessary charges for sample material, transporting, testing etc. shall have to be borne by the contractor.

21.3 All material must be the best of their kind available and the contractors must be entirely responsible for the proper and efficient carrying out of the work. Samples of all the materials to be used must be submitted to the Employer when so directed by the Employer.

21.4 Should the work be suspended by any reason, the contractor shall take all precautions necessary for the protection of work and at his own expenses shall make good any damages arising from any of these causes.

## **22. REMOVAL OF IMPROPER WORK::**

22.1 The Employer shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Employer are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanships not in accordance with drawings and specifications or instructions.

22.2 In case the contractor refuses to comply with the order the Employer shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Employer shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor.

## **23. CONTRACTOR'S EMPLOYEES::**

23.1 The contractor shall employ technically qualified and competent supervisors for the work who shall be available (By turn) throughout the work and shall participate during

site meetings and be available to take and comply with instructions of the Employer. In case of electrical works as per statutory Acts & Rules of Electricity Board and Electrical Inspectorate, the persons so employed shall have the requisite supervisory permit or wireman permit for appropriate nature of work undertaken.

### **23.2 No Child Labour :**

No labour below the age of eighteen years shall be employed on the work. In case of electrical works, the labour employed by the tenderer or their sub-contractor should be authorized person as permitted by the Chief Electrical Inspectorate office of the respective state Government. The Employer shall not be responsible for any deviation and the tenderers shall indemnify the Employer from any legal action or in any way directly or indirectly.

### **23.3 LABOUR LEGISLATION::**

The tenderer shall comply with the provisions of the payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractors Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.

23.4 The tenderer shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.

23.5 The tenderer shall indemnify and keep indemnified the Employer against payments to be made under and for the observance of the laws aforesaid and the Contractors' Labour Regulations without prejudice to his right to claim indemnify from his sub-contractors. The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

### **23.6 COMPLIANCE OF LABOUR REGULATIONS:**

i) The Tenderer shall at his own expense arrange for all the safety provisions for the safety of all workers and employees directly or indirectly employed on the work by the tenderer or his sub- contractors as mentioned in the Safety Code of this tender.

ii) The Tenderer shall be fully responsible for compliance at his own expense all the labour regulations and rules to be observed by him and his sub-contractors and by the Employer as Principal Employer of workers. The Tenderer shall fully indemnify the Employer against any action by the state and/or Central Government for any default or alleged default by the Tenderer, Sub-contractor of any of such rules and regulations. If, due to any default of the tenderer or his sub-contractors, the Employer has to incur any expenditure for compliance of the rules and regulations or for any other reason connected with such default, the Employer shall be entitled to recover from the tenderer all such expenditure in full from any payment due to the tenderer.

#### **24. DISMISSAL OF WORKMEN::**

The contractor shall on request of the Employer immediately dismiss or take of from the works any person employed thereon by him, who may in the opinion of the Employer be unsuitable or incompetent or who may misconduct himself. Such discharge shall not be the basis of any claim for compensation or damages against the Employer or any of their officers or employee.

#### **25. ASSIGNMENT::**

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 underlet the contract or any part, share or interest therein nor, change in constitution and no subletting shall relieve the contractor from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

#### **26. DAMAGE TO PERSONS AND PROPERTY INSURANCE ETC ::**

26.1 Damages to persons : THE Tenderer shall be responsible for all injury to the work or workmen to persons, animals or things and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of himself or of any sub-contractor or of any of his or a sub-contractors employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract.

26.2 The clause shall be held to include interalia, any damages to buildings whether immediately adjacent or otherwise, and any damage to roads, streets, footpaths or ways as well as damages caused to the buildings and the works forming the subject of this contract by rain, wind or other inclemency of the weather.

26.3 The tenderer shall indemnify the employer and hold harmless in respect of all and any expenses arising from such injury or damages to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of compensation or damage consequent upon such claim.

26.4 Damages to property: The Tenderer shall reinstate all damage of every sort mentioned in this clause, so as to deliver the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the property or third parties.

26.5 The tenderer shall effect the insurance necessary and indemnify the employer entirely from all responsibility in this respect. The insurance must be placed with a company approved by the employer and must be effected jointly in the name of the contractor and the employer and the policy lodged with the latter. The scope of insurance is to include loss or damage to the work and workmen due to carelessness, accident including fire, earthquake, floods, etc., damage or loss to the contract itself till this is made over a complete state. Insurance is compulsory and must be effected from the very initial stage. The contractor shall also be responsible for anything which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract.

26.6 THE employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or occurring from or in respect of any such claim or damages from any sums due or to become due to the contractor.

26.7 If the tenderer or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road curb, fence, enclosure, water pipe, cables, drains, electrical cables or telephone post or wires, trees, grass or grass land, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, or other faults appear in the work within twelve months after a certificate final or otherwise or its virtual completion shall have been given by the Employer as aforesaid arising out of defect or improper materials or workmanship the tenderer shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Employer/Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be then or at any time thereafter may become due to the tenderer, or from his security deposit, or the proceeds of sale thereof or of a sufficient portion thereof.



## **26.8 i) TRANSIT INSURANCE ::**

Wherever specifically agreed to, the firm will insure at his cost the goods for all transit risks including 60 days storage risk from the date of the delivery of the goods at the final destination.

### **INSURANCE:**

In his own interest the contractor shall insure the works and keep them insured until the virtual completion of the contract against loss or damages by fire and/or earthquake, flood. The insurance must be placed with a company approved by the Employer, in the joint names of the employer and the contractor for such amount and for any further sum if called to do so by the employer and lodge receipts of premiums paid with the employer within 21 days from the date of issue of letter of acceptance unless otherwise instructed.

Contractor shall strictly follow labour laws in force and obtain the necessary license for doing the work. He will be required to take care of the safety & security of the personnel employed and occupants of the flats, third parties, office equipments, building and other loose furniture's within the working area, during execution of the works. Contractor will be required to obtain Insurance policy "**Erection All Risk Policy (EAR)**" for the entire duration of the works till settlement of final bills as per clause 27 of this contract document. Any damage to the articles, building shall be made good by the contractor at his cost.

**26.9** The contractor in case of rebuilding or reinstatement after fire shall be entitled to extension of time for completion as the employer may deem fit.

## **27. ACCOUNTS RECEIPTS & VOUCHERS::**

The contractor shall, upon the request of the Employer furnish them with all the invoices, accounts, receipts and other vouchers that they may require in connection with the works under this contract. If the contractor shall use materials less than what is required under the contract, the value of the difference in the quantity of the materials that was required to use and that actually used shall be deducted from his dues. The decision of the Employer shall be final and binding on the contractor as to the amount of materials the contractor is required to use for any work under this contract.

## **28. PAYMENT TERMS & ITS RECOVERY ::**

### **28.1 Payment Terms:**

- i. All bills shall be prepared by the contractor in the form agreed or furnished by the Bank.
- ii. No mobilization advance amount will be paid to the vendors.
- iii. The Bank shall make the payment to Vendor on or before 7<sup>th</sup> day from the date of receipt of the monthly bill pertaining to the consumption of solar energy/installation of Solar Power Plant in Canara Bank branches under Ranchi Circle. If the due date of payment happens to be a holiday, the immediate next working day shall be considered as the due date for payment. In case of timely payment by Canara Bank, adjustment for the admissible rebate as per Clause No. 6.3.2 hereinafter shall be made while making the payment against the bill.

## **29. VARIATION / DEVIATION::**

The Engineer-in-Charge with the specific approval of the Employer shall have power to make alteration in, omissions from, additions to or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and the tenderer shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge. Such alterations, omissions, additions or substitution shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the tenderer may be directed to do in the manner specified above as part of the works, shall be carried out by the tenderer on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

(a) No work which radically changes the original nature of the contract shall be ordered by the Engineer-in-Charge as a deviation.

(b) In the event of any deviation being ordered which in the opinion of the tenderer changes the original nature of the Contract, he shall within fifteen days of having been so ordered bring this to the notice of the Employer with the reasons but nevertheless carry it out and the disagreement as to the nature of work and the rate to be paid therefore shall be resolved in accordance with Clause under caption "SETTLEMENT OF DISPUTES AND ARBITRATION".

c). The tendered rates, shall hold good for any increase or decrease in the tendered quantities upto variation of 15 % and as stipulated elsewhere for legitimate completion of works as per original design or scope of work and on account of any modification or alteration suggested and where the variation is for the respective item is beyond 15 %, the rate for the respective item may be reviewed on mutually agreed terms.

**30. SUBSTITUTION ::**

Should the contractor desire to substitute any materials and workmanship, He must obtain the approval of the Employer in writing for any such substitution well in advance. In respect of Materials whose makes are not specified in the tender, specific approval of the Employer has to be obtained in writing before their usage.

**31. PREPARATORY WORK FOR UTILISATION OF THE FACILITY AFTER COMPLETION:**

31.1 The whole of the work will be thoroughly inspected by the contractor and deficiencies and defects set right. On completion of such inspection the contractor shall inform the Employer that they have completed the work and it is ready for inspection.

31.2 On completion the contractor shall clean all the area and its surroundings, equipments etc. and will leave the entire area clean and ready for immediate usage to the satisfaction of the Employer.

**32. CLEARING SITE ON COMPLETION::**

32.1 On completion of the works the contractor shall clear away and remove from the site all constructional materials, plant & equipments, tools, surplus materials, scraps, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the Employer.

32.2 In the event of failure to clear the site as required the Employer have the right to undertake the same engaging other agency and the same shall be at the cost of the contractor and liable for deductions in the payments due to the contractor and the contractor shall not dispute such payments.

**33. CONCEALED WORKS ::**

The contractor shall give due notice to the Employer wherever any work is to be buried or concealed in the building in the earth, flooring, walls or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions or measurements taken before such burial. In default whereof the same shall, in the opinion of the Employer be either opened up for measurement at the contractors expenses or no payment may be made for such materials. Should any dispute or difference arise after the execution of any work as to measurements etc. or other matter which cannot be conveniently tested or checked, the notes / certification of the Engineer-in-charge shall be accepted as correct and binding on the contractor.

**34. ESCALATION ::**

The rate quoted shall be firm throughout the tenure of the contract (including extension of time, if any granted) and will not be subject to any fluctuation due to increase in cost of materials, labour, sales tax, octroi etc. unless specifically provided in these documents.

**35. IDLE LABOUR ::**

Whatever the reasons may be, no claim for idle labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

**36. SUSPENSION OF WORKS ::**

36.1 Subject to other provisions contained, the Employer may without prejudice to his any other rights or remedy against the tenderer in respect of any delay in commencing, completing or during the progress of work or inferior workmanship, may serve notice in writing absolutely determine and cancel the contract in any of the following cases;

i) If the contractor having been given by the Employer a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in any inefficient or otherwise improper or un-workman like manner shall comply with the requirement of such notice for a period of seven days thereafter.

ii) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.

iii) If the contractor has without reasonable cause failed to commence the work or has suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Employer (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from Employer.

iv) If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date (s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-charge.

v) If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-charge.

vi) If the contractor commits any acts mentioned in terms of tender hereof: And when the contractor has made himself liable for action under any of the cases aforesaid, the Employer shall have powers ::

a) To determine or rescind the contract of which termination or rescission notice in writing to the contractor under the hand of the Employer shall be conclusive evidence. Upon such determination or rescission, the security deposit of the contractor shall be liable to be forfeited and shall be absolutely at the disposal of Employer.

b) In any such event the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provisions aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereto or actually performed under this contract unless and until the Engineer-in-charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified; Provided further that any of the recoveries to be made when the excess cost incurred by the Employer is more than the Security Deposit to be forfeited, such recoveries shall be limited to the amount by which the excess cost incurred exceeds the Security deposit so forfeited.

36.2 In any case in which any of the powers conferred upon the Employer hereof, shall have become exercisable & the same shall not be exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected.

### **37. TERMINATION OF CONTRACT BY EMPLOYER ::**

37.1 If the contractor::

(a) at any time makes default in proceeding with the works or any part of the work with due diligence and continues to do so after a notice in writing of 7 days from the Engineer-in-Charge; or

(b) commits default in complying with any of the terms and conditions of the Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or

(c) fails to complete the works or items of work with individual dates of completion, on or before the date(s) of completion, and does not complete them within the period specified in a notice in writing is given to him in that behalf by the Engineer-in-Charge; or

(d) shall offer or give or agree to give to any person in Bank service or to any other person on his behalf any gift or consideration as an inducement or reward for favouring him in relation to the obtaining or execution of this or any other Contract for the Employer or;

(e) shall enter into a Contract with the Bank in connection with which commission has been paid or agreed to be paid by him or his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Accepting Authority/Engineer-in-Charge; or

(f) shall obtain a Contract with the Employer as a result of wrong tendering or other unethical methods of competitive tendering; or

(g) being an individual, or in a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or

(h) being a company, shall pass a resolution or the Court shall make an order for the winding up of the company or a receiver or manager on behalf of the debenture holders or others shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager; or

(i) shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days; or

(j) assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Accepting Authority;

37.1.2 The Accepting Authority may, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to the Employer, by a notice in writing cancel the contract as a whole or only such of items in default from the tenderer.

37.1.3 The Engineer-in-Charge shall on such cancellation by the accepting authority have powers to, for which the contractor shall hereby unconditionally agree ::

(a) to take possession of the Site and any materials, constructional plant, implements, stores, etc., thereon; and/or

(b) to carryout the incomplete work by any means at the risk and cost of the Tenderer.

37.2 On cancellation of the Contract in full or in part, the Engineer-in-Charge shall determine what amount, if any, is recoverable from the contractor for completion of the works or part of the Works or in case the Works or part of the Works is not to be completed, the loss or damage suffered by the Employer. In determining the amount, credit shall be given to the contractor for the value of the work executed by him up to the time of cancellation, the value of contractor's materials taken over and incorporated in the work.

37.3 Any excess expenditure incurred or to be incurred by the Employer in completing the Works or part of the Work or the excess, loss or damages suffered or may be suffered by the Employer as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Employer in law be recovered from any money due to the Tenderer on any account, and if such moneys are not sufficient the Tenderer shall be called upon in writing and shall be liable to pay the same within 30 days.

37.4 If the Contractor shall fail to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge with the approval of the Employer shall have the right to sell any or all of the Contractor's unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale hereof towards the satisfaction of any sums due from the Contractor under the Contract and if thereafter there be any balance outstanding from the Contractor, it shall be recovered in accordance with the provisions of the Contract.

37.5 Any sums in excess of the amounts due to the Employer and unsold materials, constructional plant, etc., shall be returned to the Contractor, provided always that if cost or anticipated cost of completion by the Employer of the Works or part of the Works is less than the amount which the Contractor would have been paid had he completed the Works or part of the Works, such benefit shall not accrue to the Contractor.

### **38. SETTLEMENT OF DISPUTES AND ARBITRATION ::**

38.1 It shall be an inseparable part of the contract that in matters regarding quality of materials, workmanship, removal or rejection of improper work, interpretation of the drawings and specifications, measurements of materials and/or items of work, mode of procedure and carrying out of the work, the decision of the Engineer-in-Charge which shall be given in writing, shall be final, conclusive and binding on the tenderer.

38.1(A). If the tenderer considers any work demanded of him to be outside the requirements of the contract, or considers any drawings record or decision given in writing by the Engineer-in-Charge on any matter in connection with or arising out of the contract or carrying out of work, to be unacceptable, he shall promptly within 15 days request the Employer in writing for written instruction or decision. Thereon, the Employer shall give his written instructions or decision within a period of two months from the receipt of the tenderer's letter.

(B) Upon receipt of such written instructions or decision the tenderer shall promptly proceed without delay to comply with such instructions or decisions. If the Employer fails to give his instructions or decision in writing within a period of two months after being requested or if the tenderer is dissatisfied with the instructions or decision of the Employer, the Contractor may within 30 days appeal to the designated Appellant Authority of the Employer who shall afford an opportunity to the tenderer to be heard and to offer evidence in support of his appeal. If he is dissatisfied with this decision, the tenderer shall within a period of thirty days from receipt of the Appellant Authority of the decision shall indicate his intention to refer



the dispute to Arbitration, failing which the said decision shall be final and conclusive and not referable to adjudication by the Arbitrator.

38.3 All disputes or differences in respect of which decisions have not been final, binding and conclusive as above shall be referred for adjudication by the arbitration by a Sole Arbitrator appointed as follows :

38.4 Within one month of receipt of notice from any party to the contract for appointment of the Arbitrator the Appellant Authority, in charge of the work at the time of such appointment shall send to the tenderer a panel of three names of persons who shall not presently be connected with the work. The tenderer shall within fifteen days of receipt of this list select and communicate to the Appellant Authority the name of one person from the list who shall then be appointed as the sole arbitrator by the Appellant Authority.

38.5 If tenderer fails to communicate his selection of name, within the stipulated period, the Appellant Authority shall without delay select one person from the list and appoint him as Sole Arbitrator. If the Appellant Authority fails to send such a list within one month as stipulated, the tenderer shall send a similar list to the Appellant Authority within 15 days. The Appellant Authority shall then select one person from the list and appoint him as the Sole Arbitrator within 30 days of the receipt of the list. If the Appellant Authority fails to do so the tenderer shall communicate to the Appellant Authority the name of one officer from the list who shall then be the Sole Arbitrator.

38.6 If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole Arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

38.7 IT is term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the rejection by the Appellant Authority of the appeal and a copy of his notice(s) of intention to refer the dispute to arbitration of such disputes as mentioned in Part (ii) above failing which the notice for appointment of the Arbitrator shall not be treated as notice for appointing the arbitrator.

38.8 It is also a term of this contract that no person other than a person appointed by Appellant Authority, in charge of the work as aforesaid should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.

38.9 It is also a term of the contract that if the tenderer does not make any demand for appointment of arbitration in respect of any claims in writing as aforesaid within 90 days of receiving the intimation from the Employer that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Employer shall be discharged and released of all liabilities under the contract in respect of these claims. No party shall be entitled to bring any claim to arbitration if the arbitrator has not been appointed before the expiry of sixty days after defect liability period.

38.10 The arbitration shall be conducted in accordance with the provisions of the Indian Arbitration Act, 1996, or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

38.11 The arbitrator may from time to time with the consent of the parties enlarge the time for making and publishing the award.

38.12 It is also a term of the contract that any fees TA, DA and other charges are payable to the Arbitrator shall be paid by both the parties equally.

38.13 It is also a term of the contract that the Arbitrator shall be deemed to have entered on the reference on the date of first hearing. The venue of the arbitration shall be such a place as may be fixed by the Arbitrator in his sole discretion. The fees, and charges of the Arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the Arbitrator) shall be in the discretion of the Arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

38.14 The award of the Arbitrator shall be final and binding on both the parties

### **39. RIGHT TO AUDIT/TECHNICAL EXAMINATION ::**

The Employer shall have the right to cause an audit and technical examination of the works and the bills of the contractor including all supporting vouchers, abstract, etc., to be made even after payment of the bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the tenderer under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the tenderer shall be

liable to refund the amount of over-payment and it shall be lawful for the Employer to recover the same from him in the manner prescribed in clause 47 or in any other manner legally permissible and if it is found that the tenderer was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by the Employer to the tenderer, without any interest thereon; Provided that the tenderer shall not be entitled to payment of any sum paid short where such payment has been agreed upon between the Employer on the one hand and the tenderer on the other under any term of the contract permitting payment for work after assessment by the Engineer-in-Charge.

**40. LIEN ::**

(a) Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the contractor, the Employer shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the tenderer and for the purpose aforesaid, the Employer shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalisation or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Employer shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Employer pending finalisation or adjudication of any such claim.

(b) Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Employer or any other contracting person or persons through Engineer-in-Charge against any claim of the Employer or such person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Employer or with such other person or persons.

(c) It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Employer will be kept withheld or retained as such by the Employer till the claim arising out of or under the contract is determined by the arbitrator (if the contracts governed by the arbitration clause) or by the competent court, as the case may be and that the tenderer will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the tenderer. For the purpose of this clause, where the tenderer is a partnership firm or a limited company, the Employer shall be entitled to withhold and also have a lien to retain

towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.

**41. EXTERNAL INSPECTION & AUDIT :-**

(i) All works under or in course of execution or executed in pursuance of the Contract shall at all times be open and accessible to the inspection of the Quality Control Organisation of the Employer or any designated auditor / officials of the Employer and of the Chief Technical Examiner's Office under Central Vigilance Commission.

(ii) IF it shall appear to the Engineer-in-Charge or to the Engineer in charge of Quality Control or any designated auditors / officials of the Employer or to the Chief Technical Examiner, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand made in writing within the defect liability period from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for earlier, forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require and provide other proper and suitable materials or articles at his own charge and cost.

(iii) In the event of the contractor failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, the contractor shall be liable to pay compensation at the same rate as under the clause of defects after completion for this default.

(iv) In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the Employer or the competent authority may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and without substantially affecting the utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same shall be final and binding on the tenderer.

**SIGNATURE OF TENDERER WITH SEAL**

**SAFETY CODE**

**Safety Norms to be followed by the Contractor**

**1. Safety Clause**

- i) The contractor should take all precautionary measures in order to ensure the protection of his own personnel moving about or working on the bank premises, and should conform to the rules and regulations of the bank.
- ii) The Contractor should abide by all bank regulations in force from time to time and ensure that the same are followed by his representatives, agents or sub contractors or workmen.
- iii) The contractor should ensure that unauthorized, careless or inadvertent operation of installed equipment which may result in accident to staff and / or damage to equipment does not occur.
- iv) The Contractor should indemnify and keep the purchaser indemnified and harmless against all actions, suits, claims, demands costs charges or expenses arising in connection with any accident, death or injury, sustained by any person or persons within the bank premises and any loss or damage to bank property sustained due to the acts or omissions of the contractor irrespective of whether such liability arises under the workmen's compensation act or the fatal accidents act or any other statute in force from time to time.

**2. EMS Requirements**

- i) The contractor shall ensure industrial safety methods in executing his work at bank premises.
- ii) The contractor shall ensure that all wastes generated by his activities / work are moved to the respective dump sites or taken for re-cycling at bank.
- iii) The contractor has to give prior information whether any hazardous chemical is used in his work and if so, the operational control to be exercised.
- iv) The contractor has to ensure that all his material handling equipments / transport vehicles are emission tested.
- v) The contractor has to ensure that his activities are in tune with the Canara Bank EMS Policy (to be incorporated as part of Contract)
- vi) The contractors' staff shall be competent to operate emergency appliances like fire extinguishers.
- vii) The contractors' staff shall be competent in the areas wherein the contract is awarded by evaluating through skill matrix by concerned official

### **3. OTHER SAFETY MEASURES**

- i) Adequate and appropriate tools shall be issued.
- ii) The instruments are used to be conformed to Indian Standards.
- iii) Suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except in the case of short duration work, which can be done safely from ladders. When a ladder is used, it shall be of rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450 mm and a maximum rise of 300 mm. Suitable hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than ¼ to 1 (¼ horizontal and 1 vertical).
- iv) Ensure adequate lighting at work place.
- v) Contractor should follow the terms and conditions/instructions of bank from time to time.
- vi) Activities other than the specified activities as per the contract clauses, which are assigned to you, are not permitted at our premises.
- vii) Ensure the Suitable guards are provided to the hand operating machine.
- viii) Suitable lifting machineries and tackles are to be used to handle the materials.
- ix) Any loss incurred to bank because of your activities shall be charged on your account.
- x) The equipment's & materials stored at our premises are on your own risk.
- xi) Before start of work, proper shut down (if necessary) is to be undertaken for safety
- xii) Before start of any work, appropriate Work Permits shall be obtained.
- xiii) Off cuts and wastes generated during the course of your work, must be suitably disposed identified areas.
- xiv) The renewal of permit will be issued only on the basis of performance of compliance of the said rules, regulations, conditions and safety norms.
- xv) The contractor shall engage qualified supervisors at the work site whenever men are engaged for work.
- xvi) First aid box with adequate medicine are to be provided in the work area.
- xvii) Disobeying or not following the conditions / precautions / procedures shall result in penalty. In serious cases, stoppage of work or cancellation of permits may be done.
- xviii) The display board containing the details of nature of work, maximum number of staff working per shift, period of work, site in charge name and phone number and main office phone numbers is to be placed at prominent place.
- xix) Staffs under your control are to be insured during the work period.
- xx) All personnel of the contractor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.



6. All the Indian Electricity rules 1956 on Electrical Safety should be strictly followed while execution of the Electrical works
7. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.

To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer, Engineers of the Department or their representatives.

Notwithstanding the above clause from (1) to (7), there is nothing in these to attempt the contractor from the operation of any other Act or Rule in force in the Republic of India.

**SIGNATURE OF THE TENDERER WITH SEAL**



**FORM OF AGREEMENT**

This agreement made the \_\_\_\_\_day of the month of \_\_\_\_\_in the year 2018 BETWEEN, Canara Bank a body corporate constituted under the Banking Companies ( Acquisition and Transfer of undertakings Act, 1970, having its Head office, 112, J C Road, Bangalore) represented by its duly constituted attorney (hereinafter referred to as the Employer / Bank) on the ONE PART; and

\*Sri\_\_\_\_\_S/D/o\_\_\_\_\_ resident of \_\_\_\_\_the sole proprietor of M/s\_\_\_\_\_ having office at the following address \_\_\_\_\_

\* M/s. \_\_\_\_\_ the partnership firm having an administrative/principal office at\_\_\_\_\_ represented by its Managing/duly authorised partner.

\* M/s. \_\_\_\_\_ company/body corporate incorporated under the provisions of the Companies Act 1956 having its registered office at the following address \_\_\_\_\_, duly represented at \_\_\_\_\_ duly represented by its constituted and authorised Managing Director, Shri\_\_\_\_\_ and (hereinafter called the Tenderer which term shall also be called the Supplier or the Contractor ) on the other part

WHEREAS THE Employer / Bank is desirous that to undertake the work of Supply of solar power\_\_\_\_\_ from Solar Rooftop Plants (OPEX Model) as detailed in the notice inviting tender and their office mentioned and called for invitation to tender and the tender opened on \_\_\_\_\_ furnished by the tenderer for the supply, installation and performance of such works has been accepted by the Employer on the terms and conditions as set out therein and interalia others.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to.
2. The following documents not inconsistent with these presents shall be deemed to form and be read and construed as part of this agreement viz;
  - a) Notice inviting Tender
  - b) General Rules and Instructions for the guidance of tenderers.
- c) The Tender offer, Letter of Acceptance, Letters from & to the tenderer, if any, leading to and prior to acceptance letter.

- d) General Conditions of contract along with Annexures thereto.
- e) Safety Code
- f) Schedules A to E consisting of Technical Specifications, Special Conditions, Questionnaire, tender drawings if any, etc.
- [ Note : \* Strike off whichever is not applicable ]
- g) Schedule of quantities including Prices and tendered amount known as Price - Bid.
- h) The details submitted in technical bid, design, technical brochures, drawings and such other details etc.

3. In consideration of the payments to be made by the Employer to the tenderer, the tenderer hereby covenants and agrees with the Employer to carry out the Supply of solar power from OFF Grid Rooftop Solar PV Power Plants (OPEX Model) through empanelled Vendor at select branches under Ranchi Circle Office, complete and perform the works in conformity in all respects and subject to all terms and conditions/rules as mentioned in the General Conditions as also in the aforesaid documents which shall form part of this agreement.

In witness whereof the parties hereto have hereunto set their respective hands and seals the day and year first above written.

Signed, sealed and delivered by the said tenderer, \_\_\_\_\_

\_\_\_\_\_ to the Employer \_\_\_\_\_ in the presence of:

Signature of Tenderer (with seal)

Signature of Authorised representative of the Employer / Accepting Authority.

Witness ( Signature, Name & Address ):

1).

2).

**DRAFT FORMAT OF INDEMNITY BOND**

(TO BE SUBMITTED BY THE SUCCESSFUL CONTRACTOR IN STAMP PAPER)

THIS DEED OF INDEMNITY BOND is made on this ----- day of ----- month of year two thousand Eighteen (\_\_\_\_.\_\_\_\_.2018) By M/s ----- duly represented by one of its partners -----, aged -- years, son of Sri -----, residing at -----.

\* M/s. \_\_\_\_\_ the partnership firm having an administrative/principal office at \_\_\_\_\_ represented by its Managing/duly authorised partner.

\* M/s. \_\_\_\_\_ company/body corporate incorporated under the provisions of the Companies Act 1956 having its registered office at the following address \_\_\_\_\_, duly represented at \_\_\_\_\_ duly represented by its constituted and authorised Managing Director, Shri \_\_\_\_\_ and (hereinafter called the Tenderer which term shall also be called the Supplier or the Contractor ) on the other part

Whereas My Company was short listed for issue of tenders and my company became successful in securing the subject work through competitive tendering and the work of Supply of solar power from Solar Rooftop Plants (OPEX Model) through empanelled Vendor at Ranchi Circle Office Building, has been awarded in favour of my Firm/ company by Canara Bank, Premises and Estate Section, Circle Office, Ranchi.

**And whereas for undertaking the furnishing work, my company has entered into contract agreement on \_\_\_\_\_.\_\_\_\_.2018.**

**Now this Deed Witnessed that in pursuance of the aforesaid contract agreement dt.\_\_\_\_.\_\_\_\_.2018 and in consideration of Canara Bank having agreed to make payments on the running bills claimed by my company based on the works completed by my company in respect of Supply and Installation of \_\_\_\_\_ KWp capacity Rooftop Solar PV Power Plant (OPEX Model) in Circle office building \_\_\_\_\_ and referred to above, I hereby undertake to indemnify and keep harmless the Canara Bank from any damages, prosecution, other legal suits and claims arising out of any mishaps occurring at the site due to faulty work, faulty construction and for violating rules and regulations for which I shall be solely responsible.**

[ Note : \* Strike off whichever is not applicable ]

**Schedule B**

**SPECIAL INSTRUCTIONS TO THE TENDERER**

- 1) This specification shall be read in conjunction with General conditions of contract as applicable for this project.
- 2) The tenderer shall design the equipment considering the site conditions. After award of contract no claim for extra payment will be entertained.
- 3) All Civil alteration works shall be provided by the tenderer. The equipment shall be designed keeping in view the provisions of the statutory regulations and safety codes in force in the locality of installation. All such minor civil works like chipping, grouting, drilling, etc for fixing mounting structure and other accessories are to be executed by the supplier.
- 4) Within 14 days of placement of order, the Contractor should start the work.
- 5) The following drawing/ documents shall be submitted for approval before commencement of work.
  1. Module test certificate from ETDC/any other Govt test centers have to be produced on sample basis.
  2. Contractor will submit his layout design for SPV module including its structural details to Engineer in Charge for approval prior to start of work.
  3. Design/Drawings of the mounting structure, the design for the mounting structure shall have the certification from a recognized Lab/Institution for the purpose.
  4. GA of ACDB, DCDB, Array Junction Box, Main Junction Box, Overall layout, cable routing layout, Module interconnection drawings, bill of materials etc.,
- 6) The following drawings/ documents shall be submitted for records before handing over.
  1. As built drawings.
  2. A screen printed/laminated circuit and cabling diagram. The same should also be provided in the manual.
  3. Interconnection diagram of the modules of the panels on SPV module/panels shall also be provided for ready reference of the maintenance staff.
  4. Installation, Operation and Maintenance Manual. Regarding number of copies etc., refer to relevant articles.
- 7) The quoted price shall include charges on account of all taxes, duties, packing, forwarding, transport, insurance etc. The quoted price shall remain firm and binding and shall not be subjected to any escalation whatsoever on any account during entire period of supply, installation, testing & commissioning.
- 8) SPV System shall be guaranteed for a trouble free operation after commencement of regular operation and shall include regular servicing, repair and replacement of parts by the Contractor.

- 9) Workmanship and performance warranty:
  1. The materials used shall be new and best of its kind available and shall conform to standards as mentioned in the technical specification.
  2. The supplier shall guarantee satisfactory performance of system as per relevant guidelines.
  3. The guarantee shall also cover faulty design/ materials/ workmanship. All rectification or replacement under guarantee shall be done by the supplier free of cost.
  4. The conditions regarding guarantee of equipment shall also be governed by the relevant clauses of general commercial conditions.
  
- 10) The tenderer shall fill up the price data sheet and submit in a separate cover along with the tender.
  
- 11) The tenderer shall ensure installation of all electrical equipment by approved licensed electrical Contractors and subsequent approval by electrical inspector and other competent authority, if necessary.
  
- 12) Packing: Packing and transportation of solar panels, Charge Controller, and Mounting Structure shall be made such that the equipment is not damaged, while transporting, loading and unloading.
  
- 13) Quality and Workmanship: All the units of the system shall be manufactured in accordance with international quality management systems ISO 9001-2000(or latest ISO), for which the manufacturer shall be duly accredited. A quality plan describing the quality assurance system followed by the manufacturer would be required to be submitted. The manufacturer shall also be accredited for the compliance of ISO 14001 (latest issue) pertaining to environmental requirements. All wiring shall be neatly secured in position and adequately supported Metal panel or cover holes through which the wires or cables pass shall be bushed. All materials and workmanship shall be of professional quality to ensure the requirements.

**SIGNATURE OF THE TENDERER WITH SEAL**

**Schedule C**

**Technical specifications of SPV Power Plant**

**TECHNICAL SPECIFICATIONS**

**SCOPE OF WORK:**

The scope of work covers:

Supply of solar power from Solar Rooftop Plants (OPEX Model) at Branches coming under Ranchi Circle with following features.

1. The system shall feed the solar energy only to the load. It will not export/feed any power to the grid.
2. In case of grid failure, the standby inverter shall create a captive grid and SPV power keeps feeding to this captive grid.
3. In case of low solar irradiation or cloudy weather, the deficit power is to be provide by the installed battery bank without any interruption.
4. System configuration must conform to Indian grid system (tt-n; Single-phase/ 3-Phase, neutral & earth as per site requirement).

The important Technical specifications to be taken care during various stages like design, construction, commissioning and maintenance have been enumerated below.

**1. Solar Photo Voltaic Modules**

- i. Solar photo voltaic module array shall consist of high efficiency Solar Modules utilizing Mono / Multi Crystalline high power Silicon Solar Photovoltaic cells.
- ii. Solar photovoltaic module capacity shall not be less than 300 Wp at STC.
- iii. Solar module shall be laminated using lamination technology using established polymer (EVA) and Tedlar / Polyester laminate. Anti-reflection coating to be applied on cells to improve light absorption and to increase cell performance.
- iv. The modules shall be connected in suitable series / parallel combination to meet the voltage / current requirements of the Inverter units.
- v. Solar Photovoltaic module efficiency shall be minimum 15% and power tolerance shall be in the range of 0 to +3%.The temperature co-efficient of power for PV modules should be less than or equal to -0.45% per deg C.
- vi. The rated output power of any supplied module shall not have negative tolerance.
- vii. Module shall be made of high transmissivity glass front surface giving high encapsulation gain and hot butyl rubber edge sealant for module protection and mechanical support.
- viii. All materials used must have a proven history of reliable and stable operation in external outdoor applications.

- ix. Solar modules shall be designed to operate and perform in relative humidity up to 85% with temperatures between -40 Deg C and +85 Deg C and with stand gusts up to 200 km/h from back side of the panel.
- x. The Solar PV modules and production processes employed in the manufacture of the offered module shall be in accordance with the requirements of IEC 61215 Ed 2, IEC 61730 Part 1 & 2, IEC 61701 for operation in corrosive atmosphere.
- xi. SPV Modules shall be certified by NABL/IECQ accredited test centre. Copy of the above IEC Certifications must be provided along with offer. Undertaking from manufacturer/supplier that the modules being supplied are as per above shall also accompany the offer.
- xii. The module frame must be made of corrosion resistant materials, which is electrolytically compatible with the structural material used for mounting the module.
- xiii. Module Junction box shall of Flame proof / Explosion proof type be designed for long life outdoor operation in harsh environment and shall be IP 65 or better.
- xiv. Degradation of power generated should not be exceeding 20% of the min. rated power over a 5 year period.
- xv. Efficiency of solar PV system shall be guaranteed to 90% for up to 10 years & 80% for up to 5 years.
- xvi. The PV modules shall be equipped with bypass diode to minimize power drop caused by shades.
- xvii. The solar modules shall have suitable encapsulation and sealing arrangements to protect the silicon cells from the environment. The arrangement and the material of encapsulation shall be compatible with the thermal expansion properties of the Silicon cells and the module framing arrangement / material. The encapsulation arrangement ensures complete moisture proofing during life of the solar modules.
- xviii. Each module must have low iron tempered glass front for strength and superior light transmission. It also must have tough multilayered back sheet for environment protection against moisture and high voltage electrical insulation.
- xix. The fill factor of modules shall not be less than 0.70.
- xx. The Max. System Voltage of the modules used shall be 1000-V DC.
- xxi. Each PV module shall have an RF identification tag (RFID) fixed inside the module laminate, but able to withstand harsh environmental conditions, containing following information.
  - Name of manufacturer of PV Module
  - Name of manufacturer of Solar cells
  - Month & Year of manufacture (separately for Solar cells & module)
  - Country of origin (separately for Solar cells & module)

- I-V Curve for the module
  - Peak wattage  $I_m$ ,  $V_m$  and FF for the module
  - Unique serial no. and model of the module
  - Date and year of obtaining IEC PV module qualification certificate
  - Name of the test lab issuing IEC certificate
  - Any other relevant information on traceability of solar cells and module as per ISO 9000 series.
- xxii. Modules shall be North-South oriented.
- xxiii. MCB of suitable rating to be provided for connecting / disconnecting Solar array and PCU for maintenance purposes.
- xxiv. The Solar PV Modules shall meet all the requirements of latest MNRE guidelines.

### **Mechanical Features**

- Solar Photovoltaic Module shall be made of toughened, low iron content, high transmissivity front glass.
- Anodized Aluminum Frame shall be provided around the module.
- The module shall be encapsulated with Ethyl Vinyl Acetate (EVA).
- Silicon edge sealant shall be provided around laminate.
- The back surface shall be Tedlar /Polyester trilaminate.
- Weather proof (IP 65) terminal box shall be provided for the module output terminations.
- The module shall be Resistant to water, abrasion, hail impact, humidity & other environmental factors for the worst situation at site.
- Bypass diode arrangement shall be provided.
- All nuts and bolts shall be made of very good quality stainless steel (SS 304 minimum)

### **Marking**

Each module shall carry the following clear indelible markings as minimum:

- Name, monogram of manufacturer
- Type or module number
- Module serial number
- Polarity of terminals
- Maximum system voltage for which module is designed
- Date and place of manufacture

## **2. Module Mounting Structure**

- i. Module Mounting Structure should be as per MNRE specifications and supply & installation shall be in scope of contractor.



- ii. The structure shall be designed in accordance with the latitude of the place of installation. The array mounting structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. Structure shall be designed for simple mechanical and electrical installation. It shall support SPV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly.
- iii. The array structure shall have tilt arrangement to adjust the plane of the solar array for optimum tilt.
- iv. The array structure shall be made of hot dip galvanized MS angles/anodized aluminum of size not less than 50 mm x 50 mm x 6 mm size. The minimum thickness of galvanization shall be at least 120 microns. All nuts & bolts shall be made of very good quality stainless steel. The minimum clearance of the lowest part of the module structure and the developed ground level shall not be less than 500 mm.
- v. Leg assembly of module mounting structure made of different diameter galvanized tubes are accepted. The work should be completed with supply, fitting fixing of clamps, saddles, nut & bolts etc. While quoting the rate, the contractor may mention the design & type of structure offered. All nuts & bolts shall be made of very good quality stainless steel.
- vi. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from SPV panels at the same time it will withstand wind speed up to maximum of 200 km/hr.
- vii. The contractor shall specify installation details of the PV modules and the support structures with appropriate diagrams and drawings after receiving the offer.
- viii. The structure layout drawings along with shading calculation and detailed design shall be submitted to banker for approval after receiving the offer.
- ix. PCC ARRAY FOUNDATION BASE: The legs of the structures made with GI angles will be fixed and grouted in the PCC foundation columns made with 1:2:4 cement concrete. The minimum clearance of the lowest part of any module structure shall not be less than 500 mm from ground level. While making foundation design, due consideration shall be given to weight of module assembly, maximum wind speed of 200 km/hr and seismic factors for the site.
- x. The contractor can visit the site before quoting the rate for civil works. After taking in to consideration all aspects of the site, condition of roof etc., the contractor shall quote for civil works. No extra claim shall be entertained at post project stage.
- xi. The foundation design of module structure design shall be submitted to banker for approval. The work will be carried out as per designs approved by bank. The contractor shall specify installation details of the PV modules and the support

structures with appropriate diagrams and drawings. Such details shall include, but not limited to, the following;

1. Determination of true south at the site;
  2. Array tilt angle to the horizontal, with permitted tolerance;
  3. Details with drawings for fixing the modules;
  4. Details with drawings of fixing the junction/terminal boxes;
  5. Interconnection details inside the junction/terminal boxes;
  6. Structure installation details and drawings;
  7. Electrical grounding (earthing);
  8. Inter-panel/Inter-row distances with allowed tolerances; and
  9. Safety precautions to be taken.
- xii. The array structure shall support SPV modules at a given orientation and absorb and transfer the mechanical loads to the rooftop columns properly. All nuts and bolts shall be of very good quality stainless /galvanized steel.
- xiii. Incase of any defects arising in the building during guarantee period of Five year, the contractor shall rectify the same at their own cost.

### **3. DC Combiner Box/Array Junction Box**

The junction boxes shall be dust proof, vermin and waterproof and made of FRP/powder coated Aluminium.

The terminals shall be connected to copper bus bar arrangement of proper sizes. The junction boxes shall have suitable cable entry points fitted with cable glands of appropriate sizes for both incoming and outgoing cables and earthing provision shall be available. Suitable markings shall be provided on the bus bar for easy identification and cable ferrules shall be fitted at the cable termination points for identification. Each main junction box shall be fitted with appropriate rating blocking diode. The junction boxes shall be of reputed make and conform to IP65 standards and IEC 62208. Door shall be of hinged door

with EPDM rubber gasket to prevent water entry.

The junction boxes shall have suitable arrangement for the Following:

- Combine groups of modules into independent charging sub-arrays that shall be wired to the controller.
- Provide arrangement for disconnection for each of the groups.
- Provide a test point for each sub-group for quick fault location.
- To provide group array isolation.
- The rating of the JB's shall be suitable with adequate safety factor to inter connect the Solar PV array.
- Suitable capacity MOVs shall be provided within the box to protect against lightning

*Fuse Protection on Strings:* DC fuses rated from 2A to 25A from leading manufacturers to be used in the combiner box to provide over-current protection. Fuses to be provided with indication.

*Surge Protection Device:* Surge Protection devices or SPD to be provided to protect the combiner/junction box from any power surge and voltage spike. SPD to be used should meet Type 2 regulations, and to be typically rated between 600 to 1000V.

*Input Glands/ Connectors:* The combiner/ array junction box offered is to be provided with IP 67 rated Cable Glands or MC 4 connectors at the input side to lead the array strings into the box.

#### **4. Grid Interactive Inverter/PCU**

- i. The Power Conditioning Unit comprises the Inverter(s) and associated MPPT, control, protection, data logging devices etc.
- ii. Solar array shall produce DC energy output which shall be supplied to the DC bus for inverting to AC voltage. Maximum Power Point Tracking (MPPT) system shall be an inherent feature of the system and shall be used to extract maximum energy from solar array to produce 415 VAC 3 ph 50 Hz output. The output shall be synchronized with the station's grid power.
- iii. The system shall generate power for use during the day-light hours directly by the captive load.
- iv. The peak efficiency of PCU shall not be less than 97% & shall be designed to meet the Solar PV Array capacity control which will extract maximum energy from solar array and provides 230V/ 415V AC +/-10%, 50HZ, to synchronize (and not export) with local utility grid in Indian ambient conditions.
- v. The efficiency of PCUs used at INSOLATION levels of 10% to 90% shall not be less than 90%.
- vi. Output of Inverter shall be Single- Phase/ 3 phase, 230V /415 v +/- 10%, 50 Hz sine wave with < 3% total harmonic distortion (THD). Additionally, it will provide protection features such as over current, short circuit, over temperature as a minimum.
- vii. PCU shall be of very high quality having high peak efficiency of 97% and above. The PCU should be completely compatible with the SPV array voltage and local grid / DG supply voltage.
- viii. Switching shall be MOSFET / IGBT based.
- ix. Idle current shall be less than 4% of rated capacity.
- x. The PCU shall be string type inverters to reduce the DC power losses & can have the flexibility to increase the capacity of the plant.
- xi. The PCU shall be designed for continuous, reliable power supply as per specifications.
- xii. The PCU shall be capable of complete automatic operation and shall be capable to synchronize independently & automatically with the grid supply and DG Supply. The

idea for installing SPV unit is to be utilize whatever power is available and directly feed into the system irrespective of whether grid supply is 'ON' or DG is 'ON' on SOLAR FIRST basis.

- xiii. The PCU shall have a built-in data logging facility to remotely monitor and control plant performance through external PC.
- xiv. The PCU shall have internal protection arrangement against any sustained fault The dimension, weight, foundation details etc. of the PCU shall be clearly indicated in the detailed technical specification provided by the contractor.
- xv. It has user friendly LED / LCD Graphical display for programming and viewing of the Solar system parameters and protection status.
- xvi. The operating temperature range shall be -20 to +50 deg C
- xvii. Housing cabinet - IP-20(Minimum) for indoor, IP-65(Minimum) for outdoor
- xviii. Power factor shall be greater than 0.9
- xix. Cooling shall be forced air cooling through cooling fan.
- xx. The system shall be capable of automatic operation with automatic wake-up in the morning and providing supply to the load after synchronizing with Grid/DG supply.
- xxi. When the generated power is below a low, preset value or the solar insolation is below a set value for a pre-determined amount of time, the inverter shall be disconnected from the grid and shall be operated in a "sleep mode". In this mode, the inverter power stage components shall be switched off, thereby keeping the stand by losses to a bare minimum.
- xxii. Unique MPPT algorithm shall adjust the DC Link operating voltage to ensure that maximum power is extracted from the solar array in an efficient manner.
- xxiii. Automatic "Sleep Mode" shall be provided to reduce standby losses.
- xxiv. The system shall be designed to minimize both conducted and radiated RFI emissions.
- xxv. The capacity of the Inverter shall be chosen based on the PV system wattage. However, the total Peak output Power rating of all the PCU's at operating temperatures of 45 deg C shall not be less than 100 KW.
- xxvi. Overload protection shall be min. 150% for one minute.
- xxvii. The inverter must have a DC disconnect switch / device.
- xxviii. MCB of suitable rating to be provided for connecting / disconnecting Load and PCU.
- xxix. The inverter must have an integrated MODBUS RS-485 interface for connectivity.
- xxx. Potential free contact shall be provided for the 'Solar system operation status' for remote monitoring.
- xxxi. The PCU shall meet all the requirements of latest MNRE guidelines.

## **5. Indications**

- Inverter on
- Grid on
- Inverter under voltage / over voltage
- Inverter over load

- Inverter over temperature

## **6. Protections**

- Over voltage at input
- Over current at output
- Over / under output voltage
- Over / under grid frequency
- Over temperature
- Short circuit
- DC reverse polarity
- Protection against lightning
- Surge voltage protection

## **7. Remote Monitoring**

- DC power input
- DC input voltage
- DC input current
- AC power output
- AC voltage
- AC current
- AC frequency
- Power factor
- Energy harvested daily / monthly / yearly
- Inverter status
- Total power generated/operation time

The PCU including MPPT and protection shall conform to IEC 61683 / IS 61683, IEC 60068 - 2 / equivalent BIS standards.

## **8. Data Monitoring of Solar Power Plant**

The system performance monitoring and solar generation data is recorded using a data logger. The Monitoring system shall comprise of the following main components:

- PCU logs the inverter performance data and transmits the same to the Data logger.
- Data monitoring system logs irradiance (solar insolation) and ambient temperature. Necessary sensors required for the same shall be provided by the Contractor and sensor outputs interfaced to the Solar monitoring system
- Data logger gathers information and monitors the performance of the inverter. It also supports measurements from the external sensors. The data can be acquired through Ethernet port (RJ45) and shall be available to connect to Bank network.
- The data acquisition system shall have a real-time clock and data storage capacity for recording data round the clock for min. one year.
- The monitoring of the Solar system and logging / viewing of system data shall be done through a PC with HMI software to be supplied by the Contractor.

- PC Data logging software enables automatic long-term storage of measured data from SPV Plant. It allows visualization, monitoring, commissioning and service of the installation.
- The software package shall be preferably windows based.
- The Solar system data shall be logged in chronological order, date wise. The periodicity of data logging shall be configurable.
- Event logging shall be adjustable repetition from 01 second to 600 Seconds, with storage capacity up to 03 Years with 10 minute logs.
- The system shall be capable of providing graphical trends for viewing the system parameters on real time as well as historic basis. It shall be possible to generate reports based on the logged historic data which shall be exportable in MS Excel / PDF formats.
- System shall have provision for remotely viewing the System status on local LAN /INTRANET of bank.

#### **9. AC Distribution Board (ACDB)**

An AC distribution box shall be provided between the Inverter and the existing LT Panel of bank. This panel shall have provision for protection, connection and disconnection of individual inverters from the AC system.

The AC Box will be used to combine AC power coming from the inverters.

- The AC Box shall be dust, vermin & water proof & made of FRP / ABS plastic.
- The junction boxes shall have suitable cable entry points fitted with cable glands of appropriate sizes for both incoming and outgoing cables.
- Suitable markings shall be provided on the bus bar for easy identification and cable ferrules shall be fitted at the cable termination points for identification.
- It should have the facility to protect from over currents & isolate the AC box from the main AC line.
- The AC Box should have surge protection devices, to protect inverters from surges in the AC line.
- For service & emergency safety requirements, the circuit breakers / load- break switches must have facility for remote operation.
- The Solar Power should be exported to the LT Panel bus bar through a Energy Meter. The Energy meter should have Modbus RS- 485 communication interface.

#### **10. DC Distribution Board (DCDB)**

DC Distribution panel board shall be provided to receive the DC output from the array field, with analog measurement panel for voltage, current and power from different MJBs so as to check any failure in the array field. DC DPBs shall have enclosure of dust & vermin proof. The bus bars shall be made of copper of desired size. Suitable capacity MCBs along with necessary surge arrestors shall be provided for controlling the DC power

output to the PCU/Inverter. DCDB shall be fabricated by CRC Sheet/ FRP / ABS plastic to comply with IP 65 protection.

## **11. Cables and Accessories**

- 1.1. Cables should be FRLS PVC insulated Copper Conductor armoured Cables of 1100 V
- 1.2. grade and shall conform to IS: 1554 / IEC 60502 AND IS 694 / IEC 60227.
- 1.3. Cable should be Bright Annealed 99% pure Copper Conductor. Conductor shall be of electrolytic copper confirming to IS: 8130
- 1.4. Cables shall be UV and weathering resistant.
- 1.5. Voltage drop & losses to be kept to minimum. On DC side voltage drop to be max 1%.
- 1.6. Cables shall be laid on prefabricated GI cable trays and through suitable HDPE pipes.
- 1.7. All interfaces between panel integral cable and extension cable must be done using MC4 equivalent connectors only.

## **12. Earthing and Lightning Protection**

### **Earthing Protection**

Each array structure of the PV yard should be grounded/ earthed properly as per IS:3043 -1987. In addition the lightning arrester/masts should also be provided inside the array field. Provision should be kept for shorting and grounding of the PV array at the time of maintenance work. All metal casing/shielding of the plant should be thoroughly grounded in accordance with Indian Electricity Act/IE Rules. Earth Resistance shall be tested in presence of the representative of bank as and when required after earthing by calibrated earth tester. PCU, ACDB and DCDB should also be earthed properly. Earth resistance shall not be more than 5 ohms for individual pit and shall be less than 1.0 Ohms for Grid in line. It shall be ensured that all the earths are bonded together to make them at the same potential. The earthing conductor shall be rated for the maximum short circuit current, and shall be 1.56 times the short circuit current. The area of cross -section of conductor shall not be less than 1.6 sq mm in any case. The earthing pits shall be made at locations approved by bank.

### **Lightning protection**

There shall be the required number of suitable lightning arrestors (ESE) installed in the array area. Lightning protection shall be provided by the use of metal oxide arrestors and suitable earthing such that induced transients find an alternate route to earth. Protection shall meet the safety rules as per Indian Electricity Act2003/IE rules.

## **13. FIRE EXTINGUISHERS**

=====  
This control room shall be provided with Portable fire extinguisher for fire caused by electrical short circuits. Apart from this Sand buckets shall be placed in relevant areas mandated by BIS. The installation of Fire Extinguishers should confirm to TAC regulations and BIS standards. The fire extinguishers shall be provided in the control room housing the PCUs as well as on the roof top where the PV arrays have been installed.

#### **14. Finish & Painting**

*Corrosion Resistance:* All surfaces of the equipment including frame modules, covers, chassis, brackets, etc., shall be treated to prevent corrosion.

The ACDB/DCDB shall be Galvanised iron / powdered coated/Weather proof paint.

Colour scheme shall be as follows: Siemens Gray

*Name Plate:* A name plate, anodized shall be suitably fixed to the modules of the glass, iron structure and charge controller with the following:

Name Plate for SPV Panel and Mounting Structure:

Name of the User

Manufacturer's name and identification mark

Name of the Item

Model No.

Serial No. of the unit

Year of manufacture

Name Plate for PCU:

Name of the user

Manufacturer's name and identification mark

Name of the Item

Model No.

Type of unit

Serial No. of the unit

Year of manufacture

Rating and voltage of the PCU/Inverter

Input voltage

Output Voltage and Current

On the front top of the PCU, ACDB/DCDB cabinet, an anodized, screen printed or any other arrangement ensuring better life expectancy designation plate in "Bold" letters showing "100 kWp SPV POWER PLANT UNDER GREEN INITIATIVE SCHEME".

#### **15. TOOLS, SHACKLES**

After completion of installation & commissioning of the power plant, necessary tools & shackles are to be provided free of cost by the supplier for maintenance purpose.

#### **16. Documentation**



Supplier shall provide 02 sets of Operation & Maintenance Manual in English for the complete system with Block diagram, detailed description of all the system components, mounting of PV Module, electronics used, working, starting and shutdown procedures, maintenance and trouble-shooting instructions, DO's & DONT's, Name & address of contact

person or Centre to be contacted in case of complaints/ failure. Warranty Card & Service entry card shall be provided with the SPV Power Plant systems.

Supplier shall provide 02 sets of the As-built Detailed Wiring diagrams, Array layout and termination schedules. Approval of Bank needs to be obtained on the content of Manual,

## **17. Installation of Components and Materials**

Description:

1. Supply and installation of Module mounting structure/ super structure for mounting at roof top.
2. The PV modules shall be installed with necessary tilt with the most effective orientation. Tilt angle to be optimized to obtain maximum generation.
3. Supporting structure material shall be compatible with the PV panel mounting frame.
4. Each module can be mounted on a mounting structures fabricated from hot dip galvanized MS, using appropriate clamps and trapezoidal sheet holders, rail track connectors, screws and fixtures. The structure shall be non-corrosive and long lasting. Each structure will carry multiple modules to form a row. The structure shall be capable of withstanding a wind speed of 200Km/Hr. after grouting and installation and shall be designed to cater very rough climatic conditions. The contractor shall furnish design calculations to confirm the wind speed withstand capability of the structure. The same will be reviewed by the banker's engineer's and in case of any shortcomings in the design the contractor shall make suitable changes so as to make the entire structure capable to withstand against wind speed specified as above. The mounting structure shall be guaranteed for at least 10 years.
5. Supply and installation of power conditioning unit (PCU) consisting of Solar Charge Controller/ Inverter.
6. The installation shall include the electrical wiring, cabling, terminations, cable trays, micro/ string inverters, metering and hooking up the system to the including synchronization with plant main LT Panel grid / DG set.
7. Installation of inverter should be in a ventilated area and proper inter-spacing is to be provided.
8. Laying of power/ control copper cables from PV power to plant room, Main LT panel including within terraces.
9. Supply and installation of cables on prefabricated GI cable trays and / or within suspended ceiling spaces including installation, cable trays, hangers, supports, cable terminations all fixing accessories (terrace to plant room inclusive of PVC sleeve/ other accessories etc. wherever required)

10. Supply and installation of earthing system with testing joint for every pit (grounding) system including cutting of roads / paved areas / PCC floor etc and making as good as in original shape. Prior to execution, design shall be submitted by contractor for approval by bank.
11. Supply and installation of lightening arrester, required as per statutory norms/guidelines as approved by bank.

### **18. Testing and commissioning**

Pre-commissioning tests of all electrical equipment. Specific points to be considered during commissioning are:

1. Continuity checking and insulation resistance measurement of cables.
2. Proper crimping, lugging and glanding of cables before final terminations.
3. Checking of all electrical terminations for any loose contacts.
4. Proper earthing of electric equipment & solar array to be ensured.
5. At junction box in solar array, voltage levels to be checked (between positive & negative terminal, positive to earth and negative to earth) in consultation with inverter OEM.
6. Inverter to be checked in testing mode and after No Fault indication is displayed on LCD it is to be connected to grid/battery.

### **19. Annual Generation Guarantee**

Vendor shall give minimum annual power generation guarantee for Total capacity of solar power plants installed x Average generation of solar power - calculate for per annum i.e 5840 KWH for 4 kwp for first year (Calculated on the basis of average 4 KWH per KWp installed for 365 days) and for subsequent years as per following -

2nd Year : 99% of 1st Year Generation

3rd Year : 98.5% of 1st Year Generation

4th Year : 98% of 1st Year Generation

5th Year : 97.5% of 1st Year Generation

**In case of short fall, Vendor will compensate for the less power generated as per prevailing rate of State electricity board for first five years. The power generation trend after first 5 years must be mentioned.**

Vendor may monitor the performance of system installed. In case Vendor finds that installed system will not meet assigned minimum annual guarantee, it is up to Vendor to upgrade the system to meet the minimum requirement at his own cost.

### **20. LT Panel & AC Distribution Box - Interconnection**

The Inverter / Power conditioning unit converts DC energy produced by solar array to 3/1 phase AC power. The AC power output of the inverter shall be fed to the AC Distribution Box (metering panel & isolation panel) which also houses energy meter. The

TENDER DOCUMENT – SUPPLY OF SOLAR POWER FROM OFF GRID ROOFTOP SOLAR PV POWER PLANTS (OPEX MODEL) AT CANARA BANK BRANCHES UNDER RANCHI CIRCLE OFFICE.

230 V/ 415 V AC output from the AC distribution box is fed to the owner’s LT panel for feeding the building load. The AC power from the Solar Inverter shall be synchronized with the station’s supply grid and power is fed into the building load on continuous basis. The connectivity / interfacing of the AC power output from the Solar Inverter to the existing grid power shall be designed and carried out by the contractor. First preference for drawing power shall be from Solar Inverter, the balance power shall be automatically drawn from the grid supply. Contractor shall finalize the scheme of interconnection to LT Panel / load after discussion with bank.

**ACCEPTANCE CRITERIA**

Final acceptance of the integrated system will be given only after validating the performance of the system as in Installation, Testing and Commissioning of clause above.

**TRAINING**

The supplier shall provide training to at least 3 departmental operators on the O & M aspects of the system

**SIGNATURE OF THE TENDERER WITH SEAL**

**BIDDER PROFILE DATA**

S NO	Particulars	Vendor
1	Name of the Company	
2	Year of incorporation	
3	<b>Registered office</b>	
	Address	
	Office Telephone Number	
	Fax Number	
	<b>Contact Person</b>	
	Name	
	Personal Telephone Number	
	Mobile Number	
	Email Address	
5	<b>Local office(s)in JHARKHAND</b>	
	Address	
	Office Telephone Number	
	Fax Number	

**TENDER DOCUMENT – SUPPLY OF SOLAR POWER FROM OFF GRID ROOFTOP SOLAR PV POWER PLANTS  
(OPEX MODEL) AT CANARA BANK BRANCHES UNDER RANCHI CIRCLE OFFICE.**

6	<b>Tender signing authority</b>	
	Name	
	Address	
	Personal Telephone Number	
	Email Address	
	Please enclose Authorisation or Power of Attorney to sign and submit the Tender	
7	Address for communications under the current tender	
8	Registration Details	
	Permanent Account Number	
	<b>GST Registration Number</b>	
9	Banker's Name, Address and Account	

**EMD Amount**

S.No.	Particulars	Please furnish details
1	Name of the Bank	
2	Demand Draft (DD) Number	
3	DD Date	
4	DD Amount	

**Furnish details for meeting the Eligibility Criteria**

**1) Details about Incorporation**

S NO	Description	Vendor
1	Year of Incorporation	
2	Please enclose Certificate of Incorporation	

**2) Details about Annual Turnover**

S NO	Audited years	Vendor
1	2015-2016	
2	2016-2017	
3	2017-2018	
4	Please enclose Balance sheets and Profit & Loss sheet	

**3) Details about minimum quantity installed**

<b>S No</b>	<b>Name , Address &amp; contact details of the Client</b>	<b>Capacity/ Quantity Installed (KWp / Nos)</b>	<b>Date of Commissioning</b>

**SIGNATURE OF THE TENDERER WITH SEAL  
(To be submitted in sealed envelope marked**

**“Envelope No. 2- Price Bid”**

**TERMS OF PRICE BID**

1. Prices quoted must be firm for the period /extended period of contract. No escalation shall be admissible in respect of any item of the contract, except in case of statutory variation in items like excise duty, works contract tax (if applicable), which shall be reimbursed subject to submission of necessary documents.
2. No escalation due to IEEMA clause shall be admissible.
3. Price quoted must be inclusive of all items required for the entire job of design, manufacture, supply to site, erection, testing, commissioning, and handing over including ancillary items like minor civil works, all electrical items and periodic maintenance of solar panels etc., nothing extra shall be paid.
4. All materials shall be insured against theft, damage, etc., from the time they are transported from the factory upto the time of handing over to the bank. No claim in respect of any damage/ loss shall be entertained.
6. Watch and ward responsibility at site shall be the responsibility of the contractor.
7. PERIODIC MAINTENANCE SHOULD DO BY THE VENDOR AND NO EXTRA PAYMENT WILL BE PAID BY THE BANK.
8. The tender will be awarded based on lowest Vendor (L1).
9. THE CONTRACTOR HAS TO EXECUTE AGREEMENT WITH IN 14 DAYS FROM THE DATE OF ORDER( AS PER THE FORMAT GIVEN BY THE BANK ),CONFIRMING THAT THE SOLAR POWER PLANT WILL BE MAINTAINED AT THE TENDERED RATE FOR FOUR YEARS AFTER WARRANTY PERIOD.

**Price Bid**

Sl No	Item Description Particulars	Price for each KWp of electricity Rs. Per KWp (Quote price for per KWp installed/generated from the Solar system)			
		Upto 3 KW	3 KW - 5 KW	6 KW - 8 KW	Above 8 KW
1	Solar System with adequate Battery backup installation under OPEX model for 1 <sup>st</sup> year to 5th year				
2	Solar System with adequate Battery backup installation under OPEX model 6 <sup>th</sup> year to 10th year				

The rate quoted/ negotiated shall remain constant throughout the period of contract and other statutory charges/ other taxes shall be as prevailing from time to time.

The Bank shall make the payment to VENDOR on 7<sup>th</sup> day from the date of receipt of the monthly bills pertaining to the consumption of solar energy in Canara Bank Branches/ offices/ chests under Ranchi circle. If the due date of payment happens to be a holiday, the immediate next working day shall be considered as the due date for payment. In case of timely payment by BANK, adjustment for the admissible -----hereinafter shall be made while making the payment against the bill.

- The rate includes supply, installation, testing and commissioning of solar rooftop plants, Operational charges, losses and other charges (includes statutory charges) pertain to Vendor for bring the power up to Delivery Points.
- The rate also includes periodic maintenance of solar system with all related accessories (i.e electrical/ electronic components) and replacement of spare parts bear by vendor.
- The other statutory charges/ taxes includes all statutory/ regulatory charges and losses, taxes and electricity duties and charges including CSS (Cross Subsidy Surcharge), RAC (Regulatory Asset Charges), additional surcharge, any other applicable charges.

**\*\* If any duty/ taxes/ charges applicable to the Vendor but paid by the Bank, will be deducted from the dues payable to the Vendor. Proof of payment of statutory charges/ taxes should be provided to the bank whenever called for.**

**SIGNATURE OF THE TENDERER WITH SEAL**

**Format 5 for Draft Power Purchase Agreement (PPA)**

**[NOTE: To be executed on an appropriate stamp paper]**

**POWER PURCHASE AGREEMENT (PPA)**

**FOR  
PURCHASE OF SOLAR POWER FROM ON GRID ROOFTOP SOLAR PV POWER PLANTS  
(OPEX MODEL) THROUGH EMPANELLED VENDORS AT RANCHI CIRCLE OFFICE BUILDING**

**BETWEEN**

**“BANK”**

**AND**

**“VENDOR NAME”**



**POWER PURCHASE AGREEMENT**

This **POWER PURCHASE AGREEMENT** (the '**Agreement**') is made and entered in Ranchi on this the      day of ----- 2018 (the "**Effective Date**") by and between:

CANARA BANK having its Head Office, 112 J C Road, Bangalore - 560 002 amongst others .....represented by its duly constituted attorney (hereinafter referred to as Bank) which expression shall unless excluded by or repugnant to the context be deemed to include their successors, and assigns in office). Bank's three premises/ buildings (hereinafter collectively referred to as the "Bank(s)" and individually as a "Bank"), and each of the "Bank" and "the "VENDOR" are individually referred as "Party" and collectively to as the "Parties"] of the ONE PART.

AND

(VENDOR's Name) a company incorporated and existing under the Companies Act, 1956, with its registered office at \_\_\_\_\_ (hereinafter referred to as "VENDOR" which expression shall unless repugnant to or inconsistent with the context, mean and include successors and permitted assigns) of the SECOND PART.

(Each of the parties is individually referred to as a "Party" and collectively to as the "Parties").

WHEREAS:

- A. BANK is committed towards creating, conserving, and ascertaining a safe and clean environment for sustainable development of the Bank.
- B. BANK had accordingly invited proposals by its "**Request for Proposal**" or "**RFP**" dated----- prescribed the technical and commercial terms and conditions for selection of Bidders from the empanelled Vendors of New and Solar Energy Resources for supply of solar power with total capacity of \_\_\_\_\_KWp/Unit/lumsum from Solar Rooftop Plants at \_\_\_\_\_ Circle office building. In this regard, BANK had received proposals from the bidders including, the VENDOR there to.
- C. After evaluation of the Proposal, BANK had accepted the bid of the VENDOR for supply of Solar power of \_\_\_\_\_KWp/Units/lumsum for the consumption of BANK's and the VENDOR has agreed to supply the required Solar power to BANK. BANK has issued a Purchase Order dated \_\_\_\_\_ to the VENDOR.
- D. The Parties hereby agree to execute this Power Purchase Agreement setting out the terms and conditions for the sale of Power up to the Assured energy capacity by the VENDOR to the Bank(s) and pay the VENDOR the Tariff as determined in accordance with the terms of this Agreement.
- E. The ..... [Insert as applicable "VENDOR"] has provided the Bank(s), Bank Guarantee of Security Deposit (s) as per Formatspecified in Schedule 3 of this Agreement.

**NOW, THEREFORE, in consideration of the foregoing and the respective covenants and agreements set forth in this Power Purchase Agreement, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, the Parties agree as follows:**

## **ARTICLE 1**

### **DEFINITIONS AND INTERPRETATION**

#### **1.1.1 Definitions**

**1.1.2** The terms used in this Agreement, and in all of the Schedules hereto including, without limitation, any other document related to this Agreement, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the Rules or Regulations framed there under as amended or re-enacted from time to time:

#### **1.1.3**

**“Act”** or **“Electricity Act 2003”** shall mean Electricity Act 2003 or any further amendments made subsequent to the same.

**“Agreement”** or **“Power Purchase Agreement”** or **“PPA”** shall mean this Power Purchase Agreement including its recitals and Schedules, amended or modified from time to time in accordance with the terms hereof.

**“Applicable Law”** shall mean the Electricity Act, 2003 and other statutes, delegated legislation (rules, regulations, bye laws), Notifications, binding orders of Govt. Agency, as and to the extent applicable to the Parties and the substratum of this Agreement.

**“Bank”** shall mean a reference to Nationalized Bank/Scheduled Bank as notified by the Reserve Bank of India.

**“Business Day”** shall mean a day other than Sunday or a statutory holiday, on which the Banks remain open for business in the State of Ranchi

**“CERC”** shall mean the Central Electricity Regulatory Commission of India, constituted under sub - section (1) of Section 76 of the Electricity Act, 2003, or its successors.

**“Central Transmission Utility”** or **“CTU”** shall mean the Utility notified by the Central Government under Section-38 of the Electricity Act 2003.

**“Commission”** shall mean the Central Electricity Regulatory Commission or Jharkhand State Electricity Regulatory Commission

**“Competent Court of Law”** shall mean any Court situated in the City of RANCHI in JHARKHAND State.

**“Bank Guarantee for Security Deposit”** shall have the meaning as ascribed to herein in this RFP.

=====  
"Contract Period" shall mean the period commencing from the date of supply of power (Electricity) from Delivery Point.

"Contracted Capacity" shall mean the allocation of the assured/ Contracted Capacity to each of the Banks/Bank as provided in Schedule 1 hereof.

"Control Centre" shall mean the RLDC and/or SLDC or such other load control centre designated by the Bank(s) from time to time through which the Bank(s) shall issue Dispatch Instructions to the VENDOR for supply of Power.

"Dispatch through Instruction" shall mean any instruction issued by the Bank(s) the concerned SLDC / RLDC to the VENDOR, in accordance with applicable Grid Code and this Agreement.

"Declared Capacity" shall mean the Power Station's Net Capacity at the relevant time at the Interconnection Point (expressed in KW/Units) as declared by the VENDOR in accordance with the Grid Code and dispatching procedures as per the Availability Based Tariff.

"Delivery Point" shall mean, for Inter-State transmission of power, regional periphery of the Vendor to be taken as Delivery Point and for Intra-State transmission of power, interconnection point of VENDOR with STU to be taken as Delivery Point.

"Dispute" shall mean any dispute or difference of any kind between a Bank and the Vendor or between the Banks (jointly) and the Vendor, in connection with or arising out of this Agreement including but not limited to any issue on the interpretation and scope of the terms of this Agreement as provided in this Agreement.

"Due Date" shall mean the 30<sup>th</sup> day after a Fortnightly Bill or a Supplementary Bill is received and duly acknowledged by the Bank(s) or, if such day is not a Business Day, the immediately succeeding Business Day, by which date such Bill or a supplementary Bill is such payable by such Bank(s).

"Effective Date" shall have the meaning ascribed thereto in Article 2.1 of this Agreement.

"Electricity Laws" shall mean the Electricity Act, 2003 and the rules and regulations made there under from time to time along with amendments thereto and replacements thereof and any other Law pertaining to Electricity including regulations framed by the Appropriate Commission.

"Earnest Money Deposit" shall have the meaning ascribed in RFP document (Bid Security).

"Grid Code" / "IEGC" or "State Grid Code" shall mean the Grid Code specified by the Central Commission under Clause (h) of Sub-section (1) of Section 79 of the Electricity Act and/or the State Grid Code as specified by the concerned State Commission, referred under Clause (h) of Sub-section (1) of Section 86 of the

Electricity Act 2003, as applicable.

**"Injection Point"** shall mean the Canara Bank , Branches/ offices/ Chests coming under Ranchi Circle as specified by the VENDOR in RFP Bid Document.

**"Interconnection Point"** shall mean the point where the power from the Power Station switchyard bus of the Vendor is injected into the interstate/intrastate transmission system (including the dedicated transmission line connecting the Power Station with the Interstate/ Intrastate transmission system).

**"Invoice" or "Bill"** shall mean either a monthly Invoice by any of the Parties.

**"JREDA"** shall mean the Jharkhand Electricity Regulatory Commission.

**"Minimum Bid Capacity Offered at Delivery Points"** shall mean Minimum 9 Hr. Power supply from Off Grid Solar Power Plant to run all the electrical connected load in the Branches/ Offices/ Chests

**"Month"** shall mean calendar month, unless the context otherwise requires in this Agreement.

**"Bank(s) Periphery"** shall mean the STU (Engineering Department U.T. and Municipal Corporation Jharkhand Electricity Board) interface(s) within the region of the Bank, where power is delivered to the Bank after it is injected by the Vendor.

**"Quoted Tariff"** shall have a meaning as per RFP document.

**"Regional Energy Accounts" or "REA"/ "State Energy Account" or SEA** shall have the same meaning as in the Grid Code and issued by the relevant RPC secretariat or other appropriate agency for each Week and for each Month (as per their prescribed methodology), including the revisions and amendments thereof.

**"RPC"** shall mean the relevant Regional Power Committee established by the Government of India for a specific region in accordance with the Electricity Act, 2003 for facilitating integrated operation of the power system in that region.

**"Rupees" or "Rs."** shall mean Indian Rupees, the lawful currency of India.

**"Scheduled Delivery Date"** shall mean commencement of power supply of Contracted capacity i.e., from date of signing PPA Agreement.

**"Scheduled Energy" or "Scheduled Generation"** shall mean Scheduled Generation as defined in the ABT /relevant Regulations framed by Appropriate Commission.

**"Selected Bid"** shall mean the Bid of the Successful Bidder as accepted by the Authorized Representative.

**"Vendor/ Seller"** shall mean the Successful Bidder who submitted the Bank Guarantee of Security Deposit and executes the PPA and other RFP document with the

bank and who shall be responsible for supplying power to the bank at the Delivery Point for the term of PPA as per the terms and Conditions specified therein.

“**SLDC**” shall mean the centre established under Sub-section (1) of Section 31 of the Electricity Act 2003.

“**SLDC Charges**” shall mean the charges levied by any of the relevant SLDCs for the supply of power by the VENDOR to the Bank(s).

“**State Transmission Utility**” or “**STU**” shall mean the Board or the Government Company notified by the respective State Government under Sub-section (1) of Section 39 of the Act.

“**STU Interface**” shall mean the point at which the CTU network is connected to the intrastate transmission system of the Bank(s)’s State(s), and at which the Bank(s) agree to receive power. For generation source in the same state as that of the Bank(s), the STU Interface shall be the bus- bar of the generating station from which power is contracted to be supplied, at an appropriate voltage level as specified by the STU.

“**Successful Bidder**” shall mean the Bidder selected by the Authorized Representative pursuant to the RFP for supply of power by to the Bank(s) as per the terms of PPA and RFP Documents, and to whom a LOI has been issued.

“**Unscheduled Interchange**” or “**UI**” shall have the meaning ascribed thereto in relevant CERC Regulations as amended or revised from time to time. In case the Power Station and the Bank(s) being within the same state, the Unscheduled Interchange shall be regulated by the respective SERC regulations; In the absence of SERC regulations / Intra State ABT, UI charges shall be made applicable as per CERC, Regulations from time to time.

## **1.1 Interpretation**

Save where the contrary is indicated, any reference in this Agreement to:

- 1.1.1 “Agreement” shall be construed as including a reference to its Schedules, Appendices and Annexures;
- 1.1.2 An “Article”, a “Recital”, a “Schedule” and a “paragraph / clause” shall be construed as a reference to an Article, a Recital, a Schedule and a paragraph/clause respectively of this Agreement;
- 1.1.3 An “encumbrance” shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;
- 1.1.4 “Indebtedness” shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;

- 1.1.5 A "Person" shall be construed as a reference to any person, Firm, Company, Corporation, Society, Trust, Government, State or Agency of a State or any Association or Partnership (whether or not having separate legal personality) of two or more of the above and a Person shall be construed as including a reference to its Successors, permitted Transferees and permitted Assigns in accordance with their respective interests;
- 1.1.6 Words importing the singular shall include the plural and vice versa;
- 1.1.7 This Agreement itself or any other agreement or Document shall be construed as a reference to this or to such other agreement or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented;
- 1.1.8 A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time;
- 1.1.9 Different parts of this Agreement are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this Agreement, they shall be interpreted in a harmonious manner so as to give effect to each part;
- 1.1.10 The tables of contents and any headings or sub-headings in this Agreement have been inserted for ease of reference only and shall not affect the interpretation of this Agreement;
- 1.1.11 The words "hereof" or "herein", if and when used in this Agreement shall mean a reference to this Agreement;
- 1.1.12 The terms "including" or "including without limitation" shall mean that any list of examples following such term shall in no way restrict or limit the generality of the word or provision in respect of which such examples are provided;

## ARTICLE 2

### **TERM OF AGREEMENT**

#### **2.1 Effective Date**

This Agreement shall come into effect from the date of execution by both the parties and such date shall be referred to as the effective date and shall be valid for a period of 5 (five) years plus 6 months lead period for supply of solar power by the VENDOR. BANK at its option may extend the contract at a mutually agreed tariff, terms and conditions.

#### **2.2 Term of the Agreement**

This Agreement shall be valid for a term commencement from the Effective Date and ending on the Expiry Date. However, the parties may, 180 (one hundred eighty) days prior to the Expiry date, decide to extend the term and conditions

agreement ("Term of Agreement"), unless terminated earlier.

### **2.3 Survival**

The expiry or termination of this Agreement shall not affect accrued rights and obligations of the Parties under this Agreement, nor shall it affect any continuing obligations for which this Agreement provides, either expressly or by necessary implication.

## **ARTICLE 3**

### **CONDITIONS SUBSEQUENT TO BE SATISFIED BY VENDOR/ BANK(S)**

#### **3.1 VENDOR's Obligation**

- 3.1.1 Responsible for making application with SEBs under OPEX Model for installation of Solar Rooftop plants for supplying Minimum 9 Hr. Power supply from Off Grid Solar Power Plant to run all the electrical connected load in the Branches/ Offices/ Chests Coming under Ranchi Circle on receipt of Purchase Order (PO) within 3 working days on receipt of fax/Email copy of PO from BANK, failing which EMD shall be forfeited.
- 3.1.2 Responsible for obtaining prior permission of Bank while revising the schedules, failing which compensation and penalty are payable as per Article 6 of PPA.
- 3.1.3 The VENDOR agrees and undertakes to obtain necessary permissions for scheduling of assured power up to Bank periphery through medium term open access at the VENDOR'S own cost and risk and ensure the commencement of supply from Scheduled Delivery date.
- 3.1.4 The VENDOR shall be responsible for supplying, installation, testing and commissioning and periodic maintenance and replaced damaged parts of solar rooftop system with all necessary accessories including obtaining No Objection Certificates and other liaison works with all concerned statutory and Non-statutory agencies like distribution companies, load despatch centers etc. during the term of the contract.
- 3.1.5 The VENDOR shall be responsible for scheduling of power at both ends. The VENDOR shall make agreements for providing suitable Energy Metering (ABT meter) and interconnection with existing system at their costs including testing, calibration, maintenance, renewal and repair of meters at Bank's side/ Delivery Points.

#### **3.2 Banks' Obligation**

- 3.2.1 Ensure the availability of Interconnection Facilities and evacuation of power from the Delivery Point before the Scheduled Delivery Date.

3.2.2 The Bank shall pay the bill for actual consumption of generation/installation of solar power with the agreed rates per KWp/ units/ lumsum within due date as per agreed terms and conditions including applicable statutory charges/ taxes.

### **3.3 Bank Guarantee of Security Deposit**

Security Deposit: In order to ensure the due performance of the VENDOR, the VENDOR shall furnish a DD/ Bank Guarantee, of Rupees. 5,000.00 (Rs. Fifty Thousand Only) only not later than Seven (7) working days, from the date of award of the Tender. In the event the VENDOR fails to furnish the Bank Guarantee/ Security Deposit, BANK will deduct amount equivalent to the performance bank guarantee from first bills payable to the VENDOR and the same will be converted as performance security deposit. The performance bank guarantee or security deposit will be refunded after three (3) months of the expiry of the Term or early termination. The performance bank guarantee/ security deposit will not carry any interest.

### **3.4 Return of Performance Bank Guarantee/ Security Deposit**

- 3.4.1 The Bank(s) shall return/release the Performance Bank Guarantee/Security Deposit in the event of termination of this Agreement by the Bank(s) default within 30 days.
- 3.4.2 Subject to the provisions of Article 3.4.1, the Bank(s) shall return / release the Performance Guarantee/ Security Deposit to the VENDOR at the end of the Term of this Agreement.
- 3.4.3 The return / release of the Performance Guarantee/ Security Deposit shall be without prejudice to other rights of the Bank(s) under this Agreement.

## **ARTICLE 4**

### **CAPACITY, AVAILABILITY AND DISPATCH**

#### **4.1 Availability**

4.1.1 "VENDOR shall comply/complies with the provisions of the applicable law regarding availability including, in particular, to the provisions of the ABT and Grid Code from time to time relating to declaration of Availability and the matters incidental thereto.

#### **4.2 Scheduling and Dispatch**

4.2.1 VENDOR shall comply/complies with the provisions of the applicable Law



regarding Dispatch Instructions, in particular, to the provisions of the ABT and Grid Code from time to time relating to scheduling and Dispatch and the matters incidental thereto.

4.2.2 In case of exigencies either party may request to other party for revision of agreed Schedule as per the Grid Code.

4.2.3 Variation between scheduled energy and actual energy at the Delivery Point shall be accounted for through unscheduled interchange (UI) as per the provisions of the Grid Code and UI regulations from time to time.

## **ARTICLE 5**

### **5.1 Commencement Of Supply Of Power To Bank(s)**

5.1.1 The VENDOR shall be responsible to commence the supply of assured solar power after actual assessment depending on the size of the branch by the Scheduled Delivery Date in accordance with the provisions of this Agreement.

5.1.2 If the VENDOR fails to commence the supply of power on the Scheduled Delivery date specified in this Agreement. The Bank shall have the right to forfeit the Performance Bank Guarantee/ Security Deposit.

### **5.2 Right to Contracted Capacity and Scheduled Energy**

5.2.1 Subject to provisions of this Agreement, the entire Contracted Capacity shall be for the exclusive benefit of the Bank and the Bank shall have the exclusive right to purchase the entire Contracted Capacity from the VENDOR. The VENDOR shall not grant to any third party or allow any third party to obtain any entitlement to the Contracted Capacity and/or Scheduled Energy.

### **5.3 Alternate source of power supply**

If the VENDOR is unable to provide supply of solar power to the Bank up to the assured capacity from the Delivery Points except due to a Force Majeure Event, the VENDOR is free to supply power up to the assured capacity from an alternative generation source to meet its obligations under this Agreement. Such power shall be supplied to the Bank(s) at the same Tariff as per the terms of this Agreement.

## **ARTICLE 6**

### **BILLING & PAYMENT**

#### **6.1 General**

From the commencement of supply of solar power, Bank shall pay the VENDOR the

monthly tariff payment on or before due date.

## 6.2 Payment

6.2.1 The VENDOR shall issue a signed monthly bill to the individual RR connection as follows,

**a) EB Service Connection No: .....**

Canara Bank, Branches/ Offices/ Chests Coming under Ranchi Circle.

6.2.2 Bank shall pay the tariff/rental as per Schedule - 5 for the scheduled energy at Delivery Points on monthly basis.

6.2.2.1 Payment for Liquidated Damages for failure to supply the Instructed Capacity. Both the parties would ensure that actual scheduling does not deviate the assured energy.

6.2.3 In case of failure from VENDOR side that not able to supply the assured energy per day. VENDOR shall pay compensation to Bank the differential rate taking into the account of prevailing SEBs rates.

## 6.3 Payment & Rebate

6.3.1 **Payment:** The Bank shall make the payment to VENDOR on 7<sup>th</sup> day from the date of receipt of the monthly bills pertaining to the consumption of solar energy in bank building at Branches/ Offices/ Chests Coming under Ranchi Circle. If the due date of payment happens to be a holiday, the immediate next working day shall be considered as the due date for payment. In case of timely payment by BANK, adjustment for the admissible -----hereinafter shall be made while making the payment against the bill.

## 6.4 Meters

6.4.1 For installation of meters, testing, calibration and reading and all matters incidental thereto, the VENDOR and BANK shall follow and be bound by the applicable laws including Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, the Grid Code, as amended and revised from time to time.

6.4.2 The VENDOR shall bear all costs pertaining to supply, installation, testing, calibration, maintenance, renewal and repair of ABT meter at Bank's side of Delivery Points.

## 6.5 Measurement of Energy

Measurement of electrical energy shall be done at the Interconnection point or points by the metering system at BANK.

**ARTICLE 7**

**FORCE MAJEURE AND CHANGE IN LAW**

**7.1 Force Majeure**

- i) Any restriction imposed by vendor side in scheduling of power due to breakdown of Grid constraint shall be treated as Force Majeure without any liability on either side.
- ii) Any of the events or circumstances, or combination of events and circumstances such as act of God, exceptionally adverse weather conditions, lightning, flood, cyclone, earthquake, volcanic eruption, fire or landslide or acts of terrorism causing disruption of the system.
- iii) The contracted power will be treated as deemed reduced for the period of Transmission Constraint. The non / part availability of transmission corridor should be certified by concerned RLDC / SLDC.

**7.2 Duty to Mitigate**

To the extent not prevented by a Force Majeure event, the Affected Party shall continue to perform its obligations pursuant to this Agreement. The Affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.

**7.3 Change in Law**

Change in Law includes:

- i Any change in electricity charges and other statutory charges.
- ii Any change in GST, taxes (excluding income tax), duties, cess or introduction of any tax, duty, cess made applicable for supply of solar power by the VENDOR.

The change in statutory charges and taxes on account of Change in Law as per SEBs.

**ARTICLE 8**

**GOVERNING LAW AND DISPUTE RESOLUTION**

**8.1 Governing Law**

8.1.1 This Agreement shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this Agreement shall be under the jurisdiction of appropriate courts in Ranchi.

**8.2 Amicable Settlement**

If any disputes or difference of any kind whatsoever (a "Dispute") shall arise between Purchaser and VENDOR in connection with, or arising out of or relating to this agreement or breach, termination or validity hereof, Bank and VENDOR shall attempting for a period of existence of dispute in the first instance by mutual discussions between the parties.

### **8.3 Arbitration**

Where any dispute arises claiming any change in or regarding determination of tariff or any tariff related matters or which partly or wholly could result in change in tariff, such dispute shall be adjudicated by the Appropriate Commission.

All other disputes shall be resolved by arbitration under the Indian Arbitration and Conciliation Act, 1996

## **ARTICLE 9**

### **9.1 CONFIDENTIALITY**

**9.1.1** The Parties undertake to hold in confidence this Agreement and RFP Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- a) to their professional advisors;
- b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or
- c) disclosures required under Law.

without the prior written consent of the other Parties.

**9.1.2** Notwithstanding the provisions under this agreement, the VENDOR agrees and acknowledges that the Bank(s) may at any time, disclose the terms and conditions of the Agreement and the other RFP Documents to any person, to the extent stipulated under the Law or the Competitive Bidding Guidelines.

## **ARTICLE 10**

### **MISCELLANEOUS PROVISIONS**

#### **10.1 Amendment**

This Agreement may only be amended or supplemented by a written agreement between the Parties.

## **10.2 Third Party Beneficiaries**

This Agreement is solely for the benefit of the Parties and their respective successors and permitted assigns and shall not be construed as creating any duty, standard of care or any liability to, any person not a party to this Agreement.

## **10.3 Waiver**

**10.3.1** No waiver by either Party of any default or breach by the other Party in the performance of any of the provisions of this Agreement shall be effective unless in writing duly executed by an authorized representative of such Party:

**10.3.2** Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this Agreement, which shall remain in full force and effect.

## **10.4 Language**

The language of this Agreement shall be English and all documents, notices, waivers and all other written communication or otherwise between the Parties in connection with this Agreement shall be in English.

## **10.5 Assignments**

**10.5.1** This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement shall not be assigned by any Party other than by mutual consent between the Parties to be evidenced in writing:

Provided that, such consent shall not be withheld if the Bank(s) seeks to transfer to any transferee all of its rights and obligations under this Agreement; and

- (a) such transferee is either the owner or operator of all or substantially all of the distribution system of such Bank(s) and /or such transferee is a successor entity of the Bank(s); and
- (b) this Agreement and the other RFP Documents shall continue to remain valid and binding on such successor.

## **10.6 Notices**

All notices to be given under this Agreement shall be in writing and in the English

Language and must be delivered personally or sent by registered or certified mail, Language and must be delivered personally or sent by registered or certified mail, telecopier, e-mail, telefax or telegram to the addresses below:

Address of Bank(s)

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Address of Vendor(s)

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### **10.7 Severability**

The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of this agreement unless the part held invalid or unenforceable fundamental to this agreement.

### **10.8 Breach of Obligations**

The Parties acknowledge that a breach of any of the obligations contained herein would result in injuries. The Parties further acknowledge that the amount of the liquidated damages or the method of calculating the liquidated damages specified in this Agreement is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting party in each case specified under this Agreement.

### **10.9 Commercial Acts**

10.9.1 The Bank(s) and VENDOR unconditionally and irrevocably agree that the execution, delivery and performance by each of them of this Agreement and any other RFP Documents to which it is a Party constitute private and commercial acts rather than public or governmental acts.

### **10.10 No Consequential or Indirect Losses**

10.10.1 The liability of the VENDOR and the Bank(s) shall be limited to that explicitly provided in this Agreement.

Provided that notwithstanding anything contained in this Agreement, under no event shall the Bank(s) or the VENDOR claim from one another any indirect or consequential losses or damages.

### **10.11 Discretion**

Except where this Agreement expressly requires a Party to act fairly or reasonably, a Party may exercise any discretion given to it under this Agreement in any way it deems fit.

## **10.12 REPRESENTATION AND WARRANTIES**

### **10.12.1 Representations and Warranties by the Bank(s)**

“Each Bank” hereby represents and warrants to and agrees with the VENDOR as follows and acknowledges and confirms that the VENDOR is relying on such representations and warranties in connection with the transactions described in this Agreement:

The Bank has all requisite powers and has been duly authorized to execute and consummate this Agreement;

- i) This Agreement is enforceable against the Bank in accordance with its terms;
- ii) The consummation of the transactions contemplated by this Agreement on the part of the Bank will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the Bank is a party or to which the Bank is bound, which violation, default or power has not been waived;
- iii) The Bank is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against the Bank;
- iv) There are no actions, suits, claims, proceedings or investigations pending or, to the best of the Bank’s knowledge, threatened in writing against the Bank at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to comply with its obligations under this Agreement.

“Each Bank” makes all the representations and warranties above to be valid as on the date of this Agreement.

### **10.12.2 Representation and Warranties of the VENDOR**

The VENDOR hereby represents and warrants to and agrees with the Bank(s) as follows and acknowledges and confirms that the Bank(s) is/are relying on such representations and warranties in connection with the transactions described in this Agreement:

- i) The VENDOR has all requisite power and has been duly authorized to execute and consummate this Agreement;

- ii) This Agreement is enforceable against the VENDOR in accordance with its terms;
- iii) The consummation of the transactions contemplated by this Agreement on the part of the VENDOR will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the VENDOR is a party or to which the VENDOR is bound which violation, default or power has not been waived;
- iv) The VENDOR is not insolvent and no insolvency proceedings have been instituted, or not threatened or pending by or against the VENDOR;
- v) There are no actions, suits, claims, proceedings or investigations pending or, to the best of VENDOR’s knowledge, threatened in writing against the VENDOR at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to supply power or to comply with its obligations under this Agreement.
- vi) The VENDOR/ Successful Bidder has neither made any statement nor provided any information in his Bid, which was materially inaccurate or misleading at the time when such statement was made or information was provided. Further, all the confirmations, undertakings, declarations and representations made in the Bid are true and accurate and there is no breach of the same.

The VENDOR makes all the representations and warranties above to be valid as on the date of this Agreement.

IN WITNESS WHEREOF, the Parties have executed and delivered this Agreement as of the date first above written, through their authorized representatives at \_\_\_\_\_

FOR BANK

FOR VENDOR

\_\_\_\_\_  
[Authorized Signatory]

\_\_\_\_\_  
[Authorized Signatory]

WITNESS

WITNESS

Name: [.]  
Address: [.]

Name: [.]  
Address: [.]



**FORMAT 4.8 FOR INTEGRITY PACT**

**PRE CONTRACT INTEGRITY PACT**

1. GENERAL

1.1. This pre-bid contract Agreement (herein after called the Integrity Pact) is made on \_\_\_\_\_ day of the month 20\_\_\_\_, between, the BANK, a body corporate constituted under Banking Companies (Acquisition and transfer of undertakings), Act 1970 having its Head office at 112, J.C. Road, Bangalore 560 002, with branches spread over India and abroad (hereinafter referred to as BUYER which expression shall include its successors and assigns) acting through Shri \_\_\_\_\_, (Designation of the officer) representing \_\_\_\_\_, of the BUYER, of the FIRST PART

AND

M/s. \_\_\_\_\_ represented by Shri \_\_\_\_\_ Chief Executive Officer/Authorised Signatory (hereinafter called the "BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER", which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns), of the SECOND PART

1.2. WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) /engage the services and the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER is willing to offer/has offered the stores/services and

1.3. WHEREAS the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER is a private company/ public company/Government undertaking/ partnership/ LLP/registered export agency/service provider, duly constituted in accordance with the relevant law governing its Annexureion/incorporation/constitution and the BUYER is a body corporate constituted under Banking Companies (Acquisition and transfer of undertakings), Act 1970.

1.4. WHEREAS the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER has clearly understood that the signing of this agreement is an essential pre-requisite for participation in the bidding process in respect of Stores/Equipment/Items/Services proposed to be procured by the BUYER and also understood that this agreement would be effective from the stage of invitation of bids till the complete execution of the agreement and beyond as provided in clause 13 and the breach of this agreement detected or found at any stage of the procurement process shall result into rejection of the bid and cancellation of contract rendering BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER liable for damages and replacement costs incurred by the BUYER.

2. NOW, THEREFORE, the BUYER and the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER agree to enter into this pre-contract integrity agreement, hereinafter referred to as Integrity Pact, which shall form part and parcel of RFP as also the contract agreement if contracted with BIDDER, in the event that the BIDDER turns out to be successful bidder, and it is intended through this agreement to avoid

all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the Contract to be entered into with a view to:-

- 2.1. Enabling the BUYER to obtain the desired Stores/Equipment/Work/Service/Materials at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and
- 2.2. Enabling BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER/SERVICE PROVIDER to refrain from bribing or indulging in any corrupt practices in order to secure the contract, by providing assurance to them that the BUYER shall not be influenced in any way by the bribery or corrupt practices emanating from or resorted to by their competitors and that all procurements shall be free from any blemish or stain of corruption and the BUYER stays committed to prevent corruption, in any form, by its officials by following transparent procedures. The parties hereto hereby agree to enter into this integrity Pact and agree as follows:

#### COMMITMENTS OF THE BUYER

The BUYER commits itself to the following:-

- 3.1. The BUYER represents that all officials of the BUYER, connected whether directly or indirectly with the procurement process are duty bound by rules and regulations governing their service terms and conditions not to demand, take promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 3.2. The BUYER will, during the pre-contract stage, treat all BIDDERS/VENDORS/CONTRACTORS/SERVICE PROVIDERS alike, and will provide to all BIDDERS/VENDORS/CONTRACTORS/SERVICE PROVIDERS the same information and will not provide any such information to any particular BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER which could afford an advantage to that particular BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER in comparison to the other BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDERS.
- 3.3. The BUYER shall report to the appropriate Government Regulators/Authorities any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach, as and when the same is considered necessary to comply with the law in force in this regard.

In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER to the BUYER with the full and verifiable facts and the same is prima facie found to be

correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case, while an enquiry is being conducted by the BUYER, the proceedings under the contract would not be stalled.

#### 4. COMMITMENTS OF BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDERS

The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

4.1. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

4.2. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage, or inducement to any official of the BUYER or otherwise for procuring the Contract or for forbearing to do or for having done any act in relation to the obtaining or execution of the contract or any other contract with the BUYER or for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the BUYER.

4.3. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER further confirms and declares to the BUYER that the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER is the original Manufacturer/Integrator/Authorized government sponsored export entity of the stores/Authorised Service Provider having necessary authorizations, intellectual property rights and approvals from the intellectual property right owners of such materials/services and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

4.4. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER, either while presenting the bid or during pre-contract negotiations or before signing the

- contract, shall disclose any payment he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 4.5. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 4.6. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities emanating from other competitors or from anyone else.
- 4.7. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 4.8. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 4.9. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER shall not instigate or cause to instigate any third person to commit any of the acts mentioned above.
5. PREVIOUS TRANSGRESSION
- 5.1 The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Bank, Public Sector Enterprise/Undertaking in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 5.2. If the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER makes incorrect statement on this subject, BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER can be disqualified from the tender/bid process or the contract, if already awarded, can be terminated for such reason.
6. EARNEST MONEY (SECURITY DEPOSIT)
- 6.1. Every BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER while submitting commercial bid, shall deposit an amount as specified in RFP/Tender Documents as Earnest Money/Security, Deposit, with the BUYER through any of the instruments as detailed in the tender documents.

- 6.2. The Earnest Money/Security Deposit shall be *valid for a period till* the complete conclusion of the contractual obligations or for such period as mentioned in RFP/Contract , including warranty period, whichever is later to the complete satisfaction of BUYER.
- 6.3. In the case of successful BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER, a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.4. No interest shall be payable by the BUYER to the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER on Earnest Money/Security Deposit for the period of its currency.

## 7. SANCTIONS FOR VIOLATIONS

- 7.1. Any breach of the provisions herein contained by the BIDDER/VENDOR /CONTRACTOR/SERVICE PROVIDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER shall entitle the BUYER to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER. However, the proceedings with the other BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER(s) would continue.
  - (ii) To forfeit fully or partially the Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed), as decided by the BUYER and the BUYER shall not be required to assign any reason therefor.
  - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER.
  - (iv) To recover all sums already paid by the BUYER, and in case of the Indian BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of (Name of the Bank/Price Institution) while in case of a BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER from a country other than India with Interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER/VENDOR /CONTRACTOR from the BUYER in connection with any other contract such outstanding payment could also be utilized to recover the aforesaid sum and interest. The BUYER shall also be entitled to recover the replacement costs from BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER.

- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER, in order to recover the payments, already made by the BUYER, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER and the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER.
- (vii) To debar the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER from participating in future bidding processes of the BUYER for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this Pact by BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER(s) to any middlemen or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER, the same shall not be opened.
- (x) Forfeiture of The Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- (xi) The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER, and if he does so, the BUYER shall be entitled forthwith to rescind the contract and all other contracts with the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER. The BIDDER/VENDOR/ CONTRACTOR shall be liable to pay compensation for any loss or damage to the BUYER resulting from such rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER.

7.2. The BUYER will be entitled to take all or any of the actions mentioned at para 7.1 (i) to (xi) of this Pact, also in the event of commission by the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined In Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

7.3. The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER/VENDOR/CONTRACTOR shall be final and conclusive on then BIDDER/VENDOR/CONTRACTOR. However, the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

#### 8. FALL CLAUSE

8.1. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems/services at a price lower than that offered in the present bid to any other Bank or PSU or Government Department or to any other organization/entity whether or not constituted under any law and if it is found at any stage that similar product/systems or sub systems/services was supplied by the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER to any other Bank or PSU or Government Department or to any other organization/entity whether or not constituted under any law, at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER to the BUYER, if the contract has already been concluded.

#### 9. INDEPENDENT EXTERNAL MONITORS

9.1. The BUYER has appointed two Independent External Monitors (hereinafter referred to as Monitors) for this Pact in accordance with the recommendations and guidelines issued by Central Vigilance Commission.

9.2. The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

9.3. The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

9.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings. The Monitors shall on receipt of any complaint arising out of tendering process jointly examine such complaint, look into the records while conducting the investigation and submit their joint recommendations and views to the Management and Chief Executive of the BUYER. The MONITORS may also send their report directly to the CVO and the commission, in case of suspicion of serious irregularities.

9.5. As soon as any event or incident of violation of this Pact is noticed by Monitors, or Monitors have reason to believe, a violation of this Pact, they will so inform the Management of the BUYER.

9.6. The BIDDER(s) accepts that the Monitors have the right to access without restriction to all Project /Procurement documentation of the BUYER including that provided by the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER. The BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER will also grant the Monitors, upon their request and demonstration of a valid interest, unrestricted and unconditional access to his documentation pertaining to the project for which the RFP/Tender is being /has been submitted by BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER. The same is applicable to Subcontractors. The Monitors shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractors ( ) with confidentiality.

9.7. The BUYER will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an Impact on the contractual relations between the parties. The parties may offer to the Monitors the option to participate in such meetings.

9.8. The Monitors will submit a written report to the BUYER at the earliest from the date of reference or intimation to him by the BUYER/BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER and submit proposals for correcting problematic situations.

#### 10. FACILITATION OF INVESTIGATION

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER and the BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER shall provide necessary information of the relevant documents and shall extend all possible help for the purpose of such examination,

#### 11. LAW AND PLACE OF JURISDICTION

This Pact is subject to Indian Law and the place of jurisdiction is Jharkhand state

#### 12. OTHER LEGAL ACTIONS

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the any other law in force relating to any civil or criminal proceedings.

#### 13. VALIDITY

13.1. The validity of this Integrity Pact shall be from the date of its signing and extend up to 5 years or such longer period as mentioned in RFP/Contract or the complete execution of the contract to the satisfaction of the BUYER whichever is later. In case BIDDER/VENDOR/CONTRACTOR/SERVICE PROVIDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.



13.2. If one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In such case, the parties will strive to come to an agreement to their original intentions.

14. The parties hereby sign this Integrity Pact at ..... on .....

BUYER	BIDDER
Name of the Officer	Chief Executive Officer/Authorised Signatory
Designation	
Name of Wing	
BANK	

Witness		Witness
1)		1)
2)		2)