

2) Signature -----

Name:

Address:

For M/s-----[Member 2]

(Signature, Name & Designation of the person authorized vide Board Resolution Dated)

Witnesses:

3) Signature -----

Name:

Address:

4) Signature -----

Name:

Address:

For M/s-----[Member n]

(Signature, Name & Designation of the person authorized vide Board Resolution Dated [●])

Witnesses:

5) Signature -----

Name:

Address:

6) Signature -----

Name:

Address:

Signature and stamp of Notary of the place of execution

Note: - Technology Partner in a Consortium shall be a Company with equity participation less than 10%.

FORMAT- 6.6

Format for Disclosure

[On the letter head of Bidding Company/ Each Member in a Bidding Consortium]

Disclosure

We hereby declare and confirm that only we are participating in the RfS Selection process for the RfS No..... and that our Parent, Affiliate or Ultimate Parent or any Group Company with which we have direct or indirect relationship are not separately participating in this selection process.

We further declare that the above statement is true & correct. We are aware that if at any stage it is found to be incorrect, our response to RfS will be rejected and if LOA has been issued or PPA has been signed, the same will be cancelled and the bank guarantees will be forfeited and recoveries will be effected for the payments done.

(Signature & Name of the person Authorized By the board)

Date:

FORMAT- 6.7
FINANCIAL PROPOSAL Covering Letter
(On Bidder's letter head)

[Date and Reference]

To,

Chief Engineer (RE)
Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL),
Renewable Energy Section, 5th Floor, 'Prakashgad',
Bandra (East), Mumbai - 400 051

Sub: Response to RfS No..... FOR PURCHASE OF POWER FROM
500 MW GRID CONNECTED SOLAR POWER PROJECTSTHROUGH
COMPETITIVE BIDDING PROCESS (FOLLOWED BY REVERSE E-AUCTION)

(Applicant's name) enclose herewith the Financial Proposal for Selection of my / our firm for a cumulative capacity of _____ MW as Bidder for above.

I/ We agree that this offer shall remain valid for a period of 180 (One Hundred and Eighty) days from the due date of submission of the response to RfS such further period as may be mutually agreed upon.

- 1) There can be only one tariff. If the bidder quotes two tariffs, then the bid shall be considered as non-responsive.
- 2) If the bidder submits the financial bid in the Electronic Form at <https://www.bharat-electronictender.com> not in line with the instructions mentioned therein, then the bid shall be considered as non-responsive.
- 3) Tariff requirement shall be quoted as a fixed amount in Indian Rupees only.
- 4) Conditional proposal shall be considered as non-responsive and summarily rejected.
- 5) In the event of any discrepancy between the values entered in figures and in words, the values entered in words shall be considered.
- 6) The tariff should be mentioned up to two places of decimal only.
- 7) The Financial bid is not to be mentioned anywhere other than the Electronic Form and only the financial bid mentioned in the Electronic form will be considered for further evaluation.

Authorized Signatory

Name: Designation

Name of the Firm/Consortium Address

Annexure – A: Technical Parameter of PV Module and various other components for use in Grid Connected Solar Power Plants

All components of the PV plant shall be in accordance with technical specifications given in relevant IS/IEC Standards. The design and commissioning also shall be as per latest IEC/IS standards. The following are some of the technical measures required to ensure quality of the major components used in grid connected solar power Projects.

1) PV Module Qualification:

The PV modules used in the grid connected solar power Projects must qualify to the latest edition of any of the following IEC PV module qualification test or equivalent BIS standards.

Crystalline Silicon Solar Cell Modules	IEC 61215
Thin Film Modules	IEC 61646
Concentrator PV modules	IEC 62108

In addition, PV modules must qualify to IEC 61730 for safety qualification testing @1000 V DC or higher. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701.

2) Power Conditioners/ Inverters:

The Power Conditioners/Inverters of the SPV power plants must conform to the latest edition of IEC/ equivalent BIS Standards as specified below:

Efficiency	IEC 61683
Environmental Testing	IEC 60068-2/ IEC 62093
Electromagnetic Compatibility	IEC 61000-6-2, IEC 61000-6-4 & other relevant parts of IEC 61000
Electrical Safety	IEC 62103/ 62109-1&2
Protection against Islanding of	IEEE1547/IEC 62116/ UL1741 or equivalent EN/BIS Standards
LVRT Compliance	As per the latest CERC Guidelines/ Order/ Regulations
Grid Connectivity	Relevant CERC Regulations (including LVRT compliance) and Grid Code as amended and revised from time to time.
Rated capacity	Nominal/Rated output power of the inverter (if different power ratings are mentioned at different temperatures, then power rating at 50°C shall be considered) in kW will be considered as inverter rated

3) Cables and connectors:

All cables and connectors for used for installation of solar field must be of solar grade which can withstand harsh environment conditions for 25 years from the COD of the project i.e. the date on which full commissioning of the project capacity is achieved and voltages as per latest IEC standards. (**Note:** IEC Standard for DC cables for PV systems is under development. It is recommended that in the interim, the Cables of 600 - 1800 Volts DC for outdoor installations should comply with the BS EN50618:2014/2pfg 1169/08.2007 or equivalent IS for service life expectancy of 25 years).

4) Other Sub-systems/Components:

Other subsystems/components used in the SPV power plants (Cables, Connectors, Junction Boxes, Surge Protection Devices, etc.) must also conform to the relevant international/national Standards for Electrical Safety besides that for Quality required for ensuring Expected Service Life and Weather Resistance

5) Authorized Test Centres:

The PV modules / Power Conditioners deployed in the power plants must have valid test certificates for their qualification as per above specified IEC/ BIS Standards by one of the NABL Accredited Test Centres in India. In case of module types/ equipment for which such Test facilities may not exist in India at present, test certificates from reputed ILAC Member body accredited Labs abroad will be acceptable.

6) Warranty:

- a. PV modules used in grid connected solar power plants must be warranted for peak output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years from the COD of the project i.e. the date on which full commissioning of the project capacity is achieved.
- b. The modules shall be warranted for at least 10 years for failures due to material defects and workmanship.
- c. The mechanical structures, electrical works and overall workmanship of the grid solar power plants must be warranted for a minimum of 5 years.
- d. The Inverters/PCUs installed in the solar power plant must have a warranty for 5 years.

7) Identification and Traceability:

Each PV module used in any solar power Project must use a RF identification tag. The following information must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions):

- i) Name of the manufacturer of PV Module
- ii) Name of the Manufacturer of Solar cells
- iii) Month and year of the manufacture (separately for solar cells and module)
- iv) Country of origin (separately for solar cells and module)
- v) I-V curve for the module at Standard Test Condition (1000 W/m^2 , AM 1.5, 25°C)
- vi) Wattage, I_m , V_m and FF for the module
- vii) Unique Serial No. and Model No. of the module
- viii) Date and year of obtaining IEC PV module qualification certificate
- ix) Name of the test lab issuing IEC certificate
- x) Other relevant information on traceability of solar cells and module as per ISO 9000.
- xi) Site owners would be required to maintain accessibility to the list of Module IDs along with the above parametric data for each module.

8) Safe Disposal of Solar PV Modules:

The Bidder will ensure that all Solar PV modules from their plant after their 'end of life' (when they become defective/ non-operational/ non-repairable) are disposed in accordance with the "e-waste (Management and Handling) Rules, 2011" notified by the Government and as revised and amended from time to time.

Installation Report

(To be provided by POWER PRODUCER and to be submitted at least 10 days prior to commissioning date by Appropriate Authority of State)

Sr. No.	Capacity of the Project (MW)	
	Capacity already commissioned (MW)	
	Capacity proposed to be commissioned (MW)	
I.	Technology used (Mono/Multi Crystalline / thin film / Others; please specify along with capacity of each type)	
II.	Rating of the each module (Wp)	
III.	Angle from horizontal at which array is installed	
IV.	Number of modules installed of each type	
V.	Source(s) of the cells installed of each type	
VI.	Source(s) of the Modules installed of each type	
VII.	Number of PCUs / Inverters installed	
VIII.	Source of the PCUs / Inverters (Name of supplier with address)	
IX.	Rating of PCUs / Inverters	
X.	Date of installation of full capacity (as per capacity proposed to be commissioned)	-----
	PV arrays	
	PCUs / Inverters	
	Transformers	

Sample Connectivity Report*(To be provided by concerned CTU/STU/Transmission Utility/Discoms)*

This is in compliance to the office order of the -----,----- Discom, <Place> issued vide office order <No.><dated>, the committee constituted vide said order has completed the work for commissioning of <kV> Bay & Metering Equipment to interconnect the <MW> Solar Power Generation Plant (having <technology>) with Grid installed at <Village>, <Tehsil>, <District> in the <State> on <date>. The details of Solar Power Plant are as under:-

S. No	Name of Solar Power Developer & Location	Capacity Mentioned in PPA	Connectivity	Details of Solar Power Plant (Transformer, Inverter, Modules, Switchgear)
1	<M/s> <Village> <Tehsil> <District.	<> MW	<p>Metering Detail at Delivery Point (<Village>)</p> <p>S.No. of <kV> CT</p> <p>i) <R- Phase></p> <p>ii) <Y-Phase></p> <p>iii) <B- Phase></p> <p>S.No. of < kV> PT</p> <p>i) <R- Phase></p> <p>ii) <Y-Phase></p> <p>iii) <B Phase></p> <p>S.No. of Main<ABT Meter></p> <p>S.No. of Check <ABT Meter></p> <p>Metering Equipment installed at Receiving end on dated: <></p> <p>33 kV GSS, <>, <>, (<Distt.>)</p>	<p>i) Transformer < Make/Type :> < Sr. No.></p> <p>ii) Inverters <Make/Type:> <Sr. No.></p> <p>iii) Modules <Make: > <W>, < W > <Total: Nos.></p> <p>iv) Switchgear Panels <Make/Type:> <Sr. No.></p> <p>v) Protection Provided: Under/Over voltage, Over current & Earth fault.</p>