

### 3.BIDDER SELECTION PROCESS

#### Project Capacity Allocation

HPGRE intends to lease land and setup EHV transmission system for development of ISTS connected Solar PV Projects up to 600 MW across 6 states (Gujarat, Maharashtra, Andhra Pradesh, Rajasthan, Karnataka & Tamil Nadu).

#### **Note:**

- Bidder shall quote Project capacity in relevant attachment of techno commercial bid. The area of land as per specification to be offered by Bidder shall be minimum **4 Acres / MW**. The capacity to be quoted by Bidder in each schedule is of 300MW (approximately 1200 acres of land).
- The details of land i.e., location with geographical coordinates & total area, details of transmission system i.e., voltage level transmission line and ISTS end terminal bay details and power evacuation SLD shall be submitted in Annexure of Techno commercial bid
- The Bidder shall consider all the General requirements with respect to land and Transmission system such as Topography (Max Avg Slope), Geotech and Hydrological parameters, as defined in the Technical Specifications
- The selection of vendors will be subject to evaluation criteria outlined in the tender document.

### 3.1. Eligibility of the Applicant: Pre-Qualification Criteria

This tender is being floated for acquiring land for setting up 600MW of solar plant (minimum approx. 2400 acres) along with Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation.

It has been divided into two schedules of 300MW each (minimum 1200 acres approximately). Bidders are required to quote for minimum one schedule. Bidders can quote for both the schedules if they meet the PQC criteria. Bidders quoting for both the schedules can either quote for both the schedules at one location or at two different locations.

Indian Bidders with sound technical and financial capabilities fulfilling the qualifying requirements stated herein may participate in this tender for Identification and arrangement of required land, Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation for the 300MT capacity.

#### – **Pre-Qualification Criteria**

Bidders shall meet all the criteria given hereunder

#### 3.1.1 **Financial Criteria**

Average Annual Financial Turn over during the last three years ending on ending 31st March 2024 should be at least:

Schedule No.	Proposed Capacity	Financial Criteria (Rs in lakhs)
Schedule 1	300MW	800 lakhs
Schedule 2	300MW	800 lakhs
Combined Schedule 1 & 2	600 MW	1600 lakhs

In case bidder quotes for more than one schedule as stated above, the requirement of value of average financial turnover shall be on cumulative value basis for respective schedules.

In case of companies, standalone financial statement shall be considered. While computing the annual turnover, other income shall not be considered.

- i. Average turnover shall be determined by summing up the annual turnover of each financial year and dividing the sum by three. In the event a bidder does not have turnover in any one or two of the years of the submitted financial years, the turnover for that/ those years shall be taken as Nil and the average turnover will be calculated by considering the denominator as 3 years to determine the conformity to the turnover criteria.
- ii. For the bidders following financial year closing at the end of June or September or December, the last two financial years ending with June or September or December respectively will be considered.
- iii. In case where audited results for the last financial year i.e. 31st March, 2024, as on the date of submission of the tender are not available bidders shall submit the audited results of three consecutive financial years preceding the last financial year, i.e. 2020-21, 2021-22 & 2022-23 and a Certificate signed by CEO/ CFO/ Partner/ Proprietor of the Bidder shall be submitted stating that the financial results of the last financial year of the Company / firm are under audit as on the date of submission of the bid.
- iv. For bidders (Other than Body Corporate), turnover certificate duly certified by Chartered Accountant can be provided under exceptional circumstances, where audited financial statements are not available.
- v. Bidder to ensure that any Attestation/Certification/Audited Financial Statement by Chartered Accountant submitted in Bid Document should bear Unique Document Identification Number (UDIN).

### 3.1.2 Technical Criteria

Bidder shall have experience of having successfully carried out and completed similar works \* in India in last 10 years ending last day of the month previous to the one in which applications are invited, which experience should be any of the following:

**\*Similar work means** The bidder should have executed at least the following works for grid connected Solar PV Projects/Solar Parks or Wind Projects/Wind Parks for project/ Park of 50 MW or higher capacity at single location:-

(a) Arrangement of land for the Project/Park.

**And**

(b) Obtain technical feasibility approval for power evacuation through STU/ISTS substation. “

” Work executed under Sub-contract without consent from Principle client/Owner will not be considered as similar completed work.

– **Note:**

- *For arriving at cost of similar work, the value of work executed shall be brought to current costing level by enhancing the actual value of work at simple rate of seven percent per annum, calculated from the date of completion to the date of bid opening.*
- *The reference Project/ Park of 50 MW or above capacity mentioned in the technical eligibility criteria should be at a single location.*
- *The type of land for meeting technical eligibility criteria can be either leasehold or freehold type.*
- *Bidder has to submit LoA along with client certificate or any other relevant document in support of arrangement of land.*
- *For works related to Solar Park, Bidder shall also submit certificate issued from Government Renewable Nodal Agency/ Government Enterprise/ DISCOM/ Electricity Board, etc. for evidence in support of park registration/approval.*
- *Document in support of technical feasibility approval for power evacuation issued by CTU/STU/DISCOM etc. to be submitted. In-principle grant of connectivity or stage-I connectivity with ISTS substation issued by Central Transmission Utility (CTU) shall also be considered eligible for meeting Qualifying Requirement.*
- *For Technical Criteria and Financial Criteria, PQC will be relaxed by 15% for Micro and Small Enterprises, subject to meeting the prescribed quality and technical specification of the tendered items/ services.*
- *The condition of prior turnover and prior experience is relaxed for Registered Start-ups (whether MSE or otherwise) subject to meeting similar work criteria mentioned in the Tender. For availing the relaxation, bidder is required to submit requisite certificate towards Start-up enterprise registration issued by Department of Industrial Policy and Promotion, Ministry of Commerce and the certificate should be notarized*
- The Completion Certificate for completed works should be certified by the owner/client (for whom the work order has been executed) in support of meeting the technical criteria as stipulated above. If consultants are issuing certificates, then bidders shall provide documentary evidence of appointment of consultant by the client failing which the offer shall be rejected.
- **Bidders are required to meet both the above criteria viz., Financial 1 & Technical 2 for qualifying. Bids not meeting any of the above criteria shall be rejected.**
  - **A. Information/Documents required along with the Bid Document:**
    1. Title, style and postal address of the firm.
    2. Communication particulars including telephone numbers, fax numbers and e- mail address.
    3. Following documents are required to be submitted as proof of meeting Bid Qualification Criteria (Financial):  
Notarized copies of last three Audited Annual Reports/Balance sheet & Profit and Loss account for the financial year ending March'23. For the bidders following financial year closing at the end of June or September

or December, the last three financial years ending with June 2022 or September 2022 or December 2022 respectively will be considered.

4. Following documents, duly notarized, are required to be submitted as proof of meeting bid qualification criteria (Technical):

i) Purchase Order or Work Order

ii) Certificate of Completion of Work order of relevant PO's (having cross reference to PO), clearly mentioning the scope of work and the final value along with name certified by owner/client for whom the purchase/work order had been executed.

5. In case of composite works executed (other items/works outside the similar work requirement), to arrive at value of similar works mentioned in the tender, the required break up shall be given by the party with notarization. In absence of work breakup from bidder, HPRGE shall arrive at the break up on their own and such calculation shall be final and binding on the bidder.

- HPRGE reserves the right to seek original documents or any additional information from bidders, in addition to details furnished in original bid to complete the evaluation.

General Eligibility Criteria:

- a) Parties who are affiliates of one another can decide which affiliate will make a bid. Only one affiliate may submit a bid. Two or more affiliates are not permitted to make separate bids directly or indirectly. If 2 or more affiliates submit a bid, then any one or all of them are liable for disqualification.

However, upto 3 affiliates may make a joint bid as a consortium, and in which case the conditions applicable to a consortium shall apply to them.

“Affiliate” of a Party shall mean any company or legal entity which:

- controls either directly or indirectly a Party, or
- which is controlled directly or indirectly by a Party; or
- is directly or indirectly controlled by a company, legal entity or partnership which directly or indirectly controls a Party. “Control” means actual control or ownership of at least a 50% voting or other controlling interest that gives the power to direct, or cause the direction of, the management and material business decisions of the controlled entity.

- b) Bids may be submitted by:

- I. Sole bidder: a single person (Sole Proprietorship) or entity;
- II. A newly formed incorporated joint venture (JV) which has not completed 3 financial years from the date of commencement of business;
- III. Subsidiaries / Affiliates of Indian or foreign companies
- IV. **a consortium (including an unincorporated JV) having a maximum of 3 (three) members**

- c) Fulfilment of Eligibility criteria and certain additional conditions in respect of each of the above types of bidders are stated below:

- I. The bidder (including an incorporated JV which has completed 3 financial years after date of commencement of business) shall fulfil each qualification criteria (PQC).
- II. In case the bidder is a newly formed and incorporated joint venture and which has not completed three financial years from the date of commencement of business, then either the said JV shall fulfil each qualification criteria (PQC) or any one constituent member/ promoter of such a JV shall fulfil each qualification criteria (PQC). If the bid is received with the proposal that one constituent member/ promoter fulfils each qualification criteria (PQC), then this member/promoter shall be clearly identified and he/it shall assume all obligations under the contract and provide such comfort letter/guarantees as may be required by the Corporation. The guarantees shall cover inter alia the commitment of the member/ promoter to complete the entire work in all respects and in a timely fashion, being bound by all the obligations under the contract, an undertaking to provide all necessary technical and financial support to

the JV to ensure completion of the contract when awarded, an undertaking not to withdraw from the JV till completion of the work, etc.

- III. Subsidiaries / Affiliates of Indian or foreign companies which are registered in India and having manufacturing facilities or establishment towards providing services in India are allowed to participate in this tender, subject to meeting the local content provisions as per the MII clause enclosed with the tender. Such entities can participate either on the basis of their credentials (Technical or Financial) or on the basis of the credentials (Technical or Financial) of their parent/ affiliate company, as per the PQC requirements applicable for this tender. If credentials of parent/ affiliate are sought to be relied upon, then the Indian subsidiary must meet the other PQC, either Technical or Financial. Moreover the parent/affiliate will also provide suitable Guarantees to ensure completion of the work in all respects.
- IV. In case the parent / affiliate company is from a country which shares a land border with India, then the subsidiary / affiliate company will be eligible to bid in this tender only if the parent / affiliate company is registered with the Competent Authority constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).
- V. In case the bidder(s) is/are a consortium (including an unincorporated JV), then the following conditions will apply: -
  - Each member in a consortium may only be a legal entity and not an individual person; - the Bid shall specifically identify and describe each member of the consortium;
  - the consortium member descriptions shall indicate what type of legal entity the member is and its jurisdiction of incorporation (or of establishment as a legal entity other than as a corporation) and provide evidence by a copy of the articles of incorporation (or equivalent documents);
  - One participant member of the consortium shall be identified as the “Prime member” and contracting entity for the consortium;
  - this prime member shall be solely responsible for all aspects of the Bid/Proposal including the execution of all tasks and performance of all consortium obligations;
  - any one constituent member/ promoter of such a Consortium/ JV shall fulfil either both or one of technical/ financial qualification criteria;
  - a commitment shall be given from each of the consortium members in the form of a letter signed by a duly authorized officer clearly identifying the role of the member in the Bid and the member’s commitment to perform all relevant tasks and obligations in support of the Prime/lead member of the Consortium and a commitment not to withdraw from the consortium;
  - No change shall be permitted in the number, nature or share holding pattern of the Consortium members after pre-qualification, without the prior written permission of the Owner.
  - No change in project plans, timetables or pricing will be permitted as a consequence of any withdrawal or failure to perform by a consortium member;
  - No consortium member shall hold less than 25% stake in a consortium;
  - Entities which are affiliates of one another are allowed to bid either as a sole bidder or as a consortium only;

#### Submission of Bids

##### 3.2. Documents comprising the bid includes:

- a) Techno-Commercial Bid
- b) Price Bid

**Note: Techno-Commercial Bid should not contain any price content entry. If any of the Bidders indicates the price in Techno-Commercial Bid, such bid shall be liable for rejection.**

### 3.2.1. Price Bid:

The Price Bid submitted by the Bidder shall comprise of the following:

**Price in each schedule comprises of:-**

Schedule S. No	Description
Item No. 10	<i>Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation including mandatory spares, 220KV terminal bay extension at ISTS, Right of Way, Land and Infrastructure development.</i>
Item No. 20	Statutory Fees related to Leased Land for Solar Project.
Item no.30 to 320	Yearly Land Lease for 30 years
Item No. 650 to 670	Yearly O& M for 3 years
Schedule	2
Item no.330	<i>Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation including mandatory spares, 220KV terminal bay extension at ISTS, Right of Way, Land and Infrastructure development.</i>
Item no.340	Statutory Fees related to Leased Land for Solar Project.
Item no.350 to 640	Yearly Land Lease for 30 years
Item no. 680 to 700	Yearly O& M for 3 years

Scope of Work in each line items are:-

#### **Line-Item no. 10 & 330:-**

#### **Rate to include:-**

- *Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation including mandatory spares* .Rate to include transportation, in transit insurance, insurance of material at site, lab testings, route & feasibility survey, liasioning for connectivity, Right of Way Clearance with concerned stakeholders, geotechnical investigation, design, supply, construction, erection and commissioning of EHV transmission line till ISTS substation and its connectivity. Rate to include third party inspection of materials. Rate shall include rates or prices for all labour, Contractor's equipment, temporary works, materials, consumables and all matters and things of whatsoever nature, charges for insurance covers other than inland transit Insurance, including, the provision of operations and maintenance manuals training of HPGRE's personnel, etc., and other services, as identified in the Bidding Documents, as necessary for the proper execution of the Installation Services.
- *Design, Engineering, Supply, Construction, Erection, and Commissioning of Terminal Bay at ISTS substation including mandatory spares* .Rate to include transportation, in transit insurance, insurance of material at site, lab testings, route & feasibility survey, liasioning for connectivity, Right of Way Clearance with concerned stakeholders, geotechnical investigation(if required),metering, design, supply, construction, erection and commissioning of Terminal Bay extension at ISTS substation and

its connectivity. Rate to include third party inspection of materials. Rate to include any extra work needed at ISTS substation as per connectivity requirements or as per guidelines of CTU, CEA or any acts of the Government required for connectivity. Rate shall include rates or prices for all labour, Contractor's equipment, temporary works, materials, consumables and all matters and things of whatsoever nature, charges for insurance covers other than inland transit Insurance, including, the provision of operations and maintenance manuals training of HPGRE's personnel, etc., and other services, as identified in the Bidding Documents, as necessary for the proper execution of the Installation Services.

- Rate to include compensation to be given to stakeholders as per relevant Government rules. Rate to include compensation to stakeholders which may be landowners or any statutory charges as per Government regulations, cost incurred for NOC/approvals in the process of taking RoW.
- Rate to include construction of bitumen road as per tender drawing from nearest National Highway, State Highway, Major District Roads, Other District Roads to Solar Project site. Rate for upfront charges for road land or lease for road land if it need to be quoted should be quoted in the respective line items for the purpose not in this item.
- Rate to include fencing of solar project site only as per tender drawing. Rate to include site survey, contour mapping of the land, two gates, borewells, security cabin and toilets mentioned in the scope of work.
- Rate to include site grading as per scope of work, service charge for land aggregation work and any upfront cost related to land of solar project or road which are not statutory in nature.
- Rate to includes any other charges which are not statutory in nature or is not covered in other line items.
- **Note- Length of transmission line should be within 20km.**

**Line item no. 20& 340 :-** Statutory Fees related to Leased Land for Solar Project

Rate to include any upfront cost which are statutory in nature or statutory charges related to lease/sublease of land related to solar project or connecting road. Includes Project Registration Charges by State Government or State nominated Agency i.e all fees / charges towards infrastructure development and connectivity payable to Govt Authority w.r.t Land, application, approvals, clearances, registration fees, documentation fee, Stamp Duty and / or other expenditure incurred up to the execution of Lease Deed in favor of the Employer shall be quoted.

Note-

- HPGRE shall pay all the charges w.r.t Line-item no. 20 & 340 directly to the concerned Government agencies. The above charges shall be payable as per actuals and on submission of suitable documentary evidence by the Bidder. However, during the execution of the contract, if it is found that the charges which are payable by HPGRE is more than the charges quoted by the Bidder in this Item No., the differential amount shall be deducted from the running bills.

**Line item no. 30 to 320 & 350 to 640 :-** Yearly Land Lease for 30 years

Lease/Sub lease charges of Government/Private land for solar project for 30 years. Price of Land offered by the Bidder to be leased/sub leased in favour of HPGRE The rate or prices quoted shall also be inclusive of all applicable Taxes, Duties and Levies payable. Total lease charges for Government/Private Land offered by the Bidder to be leased in favour of HPGRE shall be quoted year wise. Bidder has to quote prices on yearly basis for cumulative basis for minimum 1200 acres of land per schedule. Detailed yearly price component landowner wise can be provided after preparation of contract agreement.

Note-

- HPGRE shall pay all the charges w.r.t Line-item no. 30 to 320 & 350 to 640. The above charges shall be payable as per actuals and on submission of suitable documentary evidence by the Bidder.



However, during the execution of the contract, if it is found that the charges which are payable by HPGRE is more than the charges quoted by the Bidder in this Item No., the differential amount shall be deducted from the running bills.

**Line item no. 650 to 670 & 680 to 700:-** O& M for 1<sup>st</sup> year, 2<sup>nd</sup> Year & 3<sup>rd</sup> Year

Rate to include O& M charges for EHV transmission lines from solar park to ISTS substation & termination bay at ISTS substation. Rate to include operations and maintenance services for three years including recurring cost of leased land (other than lease value), recurring cost of EHV transmission line, terminal bay, shared evacuation system and recurring cost till three years from the **date of commissioning of the project**.

Total Comprehensive O&M charges for 3 years quoted by the bidder. Cost equivalent to Minimum 0.5% of the total EPC Contract Cost (i.e Line item 10 & 330) OR Higher per year for COMC shall be quoted by bidder. If after opening of priced bids, it is observed that the vendor has quoted less than 0.5% of the total EPC Cost year wise towards COMC charges for years for any schedule, then the unit rates quoted by the vendor towards EPC line item shall be proportionately reduced and the item wise unit rates quoted towards the COMC lines shall be proportionately increased in such a way as to ensure that the total bid value of a particular schedule remains constant. In case the vendor quotes higher amount of COMC, the quoted amount shall be retained.

**Note:**

- The above schedule shall be applicable for the 300 MW capacity of the Project by the Bidder.
- Price Bid should not contain any matter in respect of Technical and/ or Commercial aspects other than the details specifically sought by HPGRE in the Price Bid. If the Technical/ commercial matters indicated in Price Bid are found to be in contradiction with the details furnished in Techno-Commercial Bid, the details furnished in Techno-Commercial Bid shall prevail.
- The price bid submitted by the Bidder should be without any deviations and strictly in conformity with the provisions of all bidding documents and amendment/addenda/corrigenda/ errata/clarification to the bidding documents issued by HPGRE.
- Unless otherwise specified in the Technical Specifications, Bidders shall **quote for the entire facilities on a “single responsibility” basis** such that the **total bid price (including Taxes & Duties)** covers all the Contractor’s obligations mentioned in or to be reasonably inferred from the bidding documents in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction [including, Structural Steel Works Civil & Allied Works etc.], installation, commissioning, completion of the facilities and conductance of Guarantee tests for the facilities including supply of mandatory spares (if any), operation and maintenance. This includes all requirements under the Contractor’s responsibilities for testing, pre-commissioning and commissioning of the facilities, conducting Guarantee tests and, where so required by the bidding documents, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the bidding documents.



## Bid Opening and Evaluation

### 3.3. Preliminary Examination of Techno-Commercial Bids

- a) HPGRE will examine the Bids to determine whether the same are complete, whether required documents have been furnished, whether the documents have been properly signed and whether the Bids are generally in order.
- b) During evaluation and comparison of bids, the Employer may, at his discretion ask the Bidder for clarification on its bid. The request for clarification shall be in writing and no change in prices or substance of the bid shall be sought, offered, or permitted. No post bid clarification at the initiative of the Bidder shall be entertained as all such clarifications would have been obtained prior to the submission of the bid.
- c) HPGRE may waive any minor informality, nonconformity, or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- d) Prior to the detailed evaluation, the Employer will determine whether each Techno-commercial bid is of acceptable quality, is complete, and is **substantially responsive** to the Bidding Documents. For purposes of this determination, a substantially responsive bid is one that (a) materially conforms to all the terms, conditions and specifications of the bidding documents without material deviations, objections, conditionalities or reservations A material deviation, exception, objection, conditionality, or reservation is one (i) that affects in any substantial way the scope, quality, or performance of the contract: (ii) that limits, in any substantial way that is inconsistent with the Bidding Documents, the Employer's rights or the Successful Bidder's obligations under the Contract, or (iii) whose rectification would unfairly affect the competitive position of other Bidders who have submitted substantially responsive bids.

### Evaluation of Price Bids

1. Price bids of only qualified and techno-commercially acceptable bidders shall be opened.
2. EBV (Evaluated Bid Value) Per kWh will be worked out by theoretical generation accepted by HPRGE.
3. Price evaluation of the bids shall be carried out by Computation of Evaluated Bid Value (EBV) considering the following:
  - i. Quoted EPC Price for Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation including mandatory spares, 220KV terminal bay extension at ISTS, Right of Way, Land and Infrastructure development inclusive of all taxes / duties etc.
  - ii. Statutory Fees related to Leased Land for Solar Project.
  - iii. Total comprehensive Lease cost for 30 years quoted by the EPC Contractor. Annual Discount factor of 8.00% shall be considered for the calculating the NPV of Land lease cost.
  - iv. Total Comprehensive O&M charges for 3 years quoted by the bidder. Cost equivalent to Minimum 0.5% of the total EPC Contract Cost OR Higher per year for COMC shall be quoted by bidder. If after opening of priced bids, it is observed that the vendor has quoted less than 0.5% of the total Capital Cost year wise towards COMC charges for 3 years for any schedule, then the unit rates quoted by the vendor towards EPC line item excluding COMC lines shall be proportionately reduced and the item wise unit rates quoted towards the COMC lines shall be proportionately increased in such a way as to ensure that the total bid value of a particular schedule remains constant. In case the vendor quotes higher amount of COMC, the quoted amount shall be retained.

v. Theoretical Generation Value in Million Units (G)

**Where,**

Calculation of G is as follows:

- Based on the co-ordinates submitted by Bidder, GHI of the offered site ( $H_{quoted}$ ) from Annual average GHI (H) value taken from 10 year yearly average data(2001-2010) in kWh/m<sup>2</sup> as per meteonorm from PV system from Latitude and Longitude provided shall be considered by HPGRE for estimation of generation as follows:
- Calculated Specific Generation, **G calculated in MU =  $H_{quoted} * 0.4$**

The calculated generation shall be rounded off to 3 decimal places.

vi. Annual Discount factor of 8.00% shall be considered for the calculating the NPV of O&M Cost.

The evaluation methodology for selection of L1 bidder shall be as follows:

The L1 bidder shall be selected based on lowest Evaluated Bid Value (EBV) per kWh, which shall be worked out using following formula:

EBV (Rs. per kWh)	$(X1+X2+X3+X4) / G$
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Where:

Symbol	Details of parameters
X1	Quoted EPC Price for Design, Engineering, Supply, Construction, Erection, and Commissioning of EHV Transmission System up to ISTS substation including mandatory spares, 220KV terminal bay extension at ISTS, Right of Way, Land and Infrastructure development inclusive of all taxes / duties etc.
X2	Statutory Fees related to Leased Land for Solar Project.
X3	NPV of total land lease amount to be paid for 30 years agreement period, considering discount factor at 8%
X4	NPV of Quoted Total Comprehensive O&M charges for 3 years considering discount factor at 8%
G	Theoretical Generation Value in Million Units

**Where,**

ii. Calculation of G is as follows:

- Based on the co-ordinates submitted by Bidder, GHI of the offered site ( $H_{quoted}$ ) from Annual average GHI (H) value taken from 10 year yearly average data(2001-2010) in kWh/m<sup>2</sup> as per meteonorm from PV system from Latitude and Longitude provided shall be considered by HPGRE for estimation of generation as follows:
- Calculated Specific Generation, **G calculated in MU =  $H_{quoted} * 0.4$**

- The calculated generation shall be rounded off to 3 decimal places.

**Sample Bid Evaluation for Evaluated Bid Value (EBV)**

<b>Bidder</b>		<b>A</b>	<b>B</b>	<b>C</b>	<b>Remarks</b>
Total Project Cost including Design & Supply of Equipment, erection, commissioning & Testing including SEM metering cost (X1) in Rs lakhs		8200	8400	8600	As Quoted
Statutory Fees related to Leased Land for Solar Park (X2) in Rs lakhs		400	600	650	As Quoted
Total Land lease Cost per Year-in Rs lakhs	NPV Multiplying Factor				As Quoted
Land Lease Agreement value – 1st YEAR	1	600	600	500	As Quoted
Land Lease Agreement value – 2nd YEAR	0.926	600	650	500	As Quoted
Land Lease Agreement value – 3rd YEAR	0.857	600	650	500	As Quoted
Land Lease Agreement value – 4th YEAR	0.794	630	700	500	As Quoted
Land Lease Agreement value – 5 <sup>th</sup> YEAR	0.735	630	700	550	As Quoted
Land Lease Agreement value – 6th YEAR	0.681	630	750	580	As Quoted
Land Lease Agreement value – 7th YEAR	0.63	660	750	580	As Quoted
Land Lease Agreement value – 8th YEAR	0.583	660	770	580	As Quoted
Land Lease Agreement value – 9th YEAR	0.54	660	770	600	As Quoted
Land Lease Agreement value – 10th YEAR	0.5	690	780	600	As Quoted
Land Lease Agreement value – 11th YEAR	0.463	690	780	600	As Quoted
Land Lease Agreement value – 12th YEAR	0.429	690	800	650	As Quoted
Land Lease Agreement value – 13th YEAR	0.397	720	800	650	As Quoted

Land Lease Agreement value – 14th YEAR	0.368	720	800	680	As Quoted
Land Lease Agreement value – 15th YEAR	0.34	720	830	680	As Quoted
Land Lease Agreement value – 16th YEAR	0.315	750	830	700	As Quoted
Land Lease Agreement value – 17th YEAR	0.292	750	830	700	As Quoted
Land Lease Agreement value – 18th YEAR	0.27	750	850	700	As Quoted
Land Lease Agreement value – 19th YEAR	0.25	780	850	750	As Quoted
Land Lease Agreement value – 20th YEAR	0.232	780	850	750	As Quoted
Land Lease Agreement value – 21st YEAR	0.214	780	870	750	As Quoted
Land Lease Agreement value – 22nd YEAR	0.199	810	870	800	As Quoted
Land Lease Agreement value – 23rd YEAR	0.184	810	880	800	As Quoted
Land Lease Agreement value – 24th YEAR	0.17	810	890	810	As Quoted
Land Lease Agreement value – 25th YEAR	0.158	840	890	830	As Quoted
Land Lease Agreement value – 26th YEAR	0.146	840	900	850	As Quoted
Land Lease Agreement value – 27th YEAR	0.135	840	900	870	As Quoted
Land Lease Agreement value – 28th YEAR	0.125	870	910	880	As Quoted
Land Lease Agreement value – 29th YEAR	0.116	870	910	890	As Quoted
Land Lease Agreement value – 30th YEAR	0.107	870	910	900	As Quoted
NPV Rate		8.00%	8.00%	8.00%	As per tender
NPV of total land lease amount to be paid for 30 years		<b>8295.240</b>	<b>9191.490</b>	<b>7473.640</b>	Derived

agreement period (X3) in Rs. lakhs					
Total O&M Cost per Year-in Rs lakhs					
1st Year O&M	0.926	<b>40</b>	<b>46</b>	<b>42</b>	
2nd Year O&M	0.857	<b>42</b>	<b>48</b>	<b>48</b>	
2nd Year O&M	0.794	<b>44</b>	<b>52</b>	<b>50</b>	
NPV Rate		<b>8.00%</b>	<b>8.00%</b>	<b>8.00%</b>	As per tender
NPV of O&M Price (X4) in Rs. lakhs		<b>107.970</b>	<b>125.020</b>	<b>80.028</b>	
X1+X2+X3+X4		17003.210	18316.510	16803.668	
Annual average GHI (H) value taken from 10 year yearly average data(2001-2010) in kWh/m2 as per meteonorm from PV system from Latitude and Longitude provided		1830	1790	1740	Will be taken from 10 year yearly average data (2001-2010) in kWh/m2 as per meteonorm from PV system.
Annual Generation from GHI Value in Million Units(G)		<b>732.000</b>	<b>716.000</b>	<b>696.000</b>	Multiply by 0.4 to convert into MU.
EBV-Lakhs/MU		<b>23.228</b>	<b>25.582</b>	<b>24.143</b>	(X1+X2+X3+X4) / G
EBV - Rs / kWh		<b>2.32</b>	<b>2.55</b>	<b>2.41</b>	

In the above sample calculations, Bidder A is having lowest EBV and is selected as L1 bidder

**Note:**

- A. The SLD to be submitted shall clearly show the power evacuation details (Dedicated and shared) till ISTS substation
- B. The O&M agreement for common shared transmission infrastructure shall be executed by Bidder/lead generator with HPGRE before release of final payment to the Contractor.
- C. Bidder must bring out their overall plan for utilization of ultimate/technical connectivity capacity of the transmission system offered by them as a part of the power evacuation scheme (whether dedicated system exclusively for HPGRE or shared transmission system at present/future as the case may be) in the SLD to be

submitted. In case the dedicated transmission system is utilized as shared transmission system in future, the O&M cost shall be calculated based on proportionate plant capacity of the shared projects with effect from date of sharing. In all cases, the proposed power evacuation arrangement shall meet the CERC connectivity regulatory provisions.

- D. For common sharing transmission infrastructure including shared pooling substation, if the O&M cost in sharing agreement finalized between stakeholders is more than the O&M cost finalized during bid evaluation, then NPV of extra O&M cost shall be recovered from contract price.
- E. During the evaluation of bids, HPGRE may seek clarifications/additional documents from the applicants. Applicants shall be required to respond to any clarifications/additional documents
- F. HPGRE and its onboarded vendors, or their authorized representative or any agency as appointed, may at its discretion, be allowed to visit the site/offered land and assess its suitability/techno-commercial feasibility in the overall interest of renewable power plant, at any time prior to the signing of lease or any type of agreement and the applicant will provide adequate assistance for the same.
- G. HPGRE will be allowed to reserve the right to accept/ partially accept or reject the site offered by the applicant based on the above due diligence or as per its requirements.
- H. *During Post-Award, for any unavoidable reasons or practical conditions of site, if land for a Project/ at a location is sub-divided into two or more parts, any RoW for cabling/drainage, necessary approach road etc between plots (if not readily available) would be in the bidder's scope at no extra cost to employer. Additionally, the cost for interplot 33kV cabling to be done by HPRGE shall be recovered from the contract price as follows:*

*During detailed engineering, bidder shall finalize the plot in which proposed pooling substation shall be constructed by HPGRE (say, main plot). The RoW distance between each of the other sub plots to the main plot (boundary to boundary distance) shall be used for recovery calculation.*

- I. **Rate = Rs 220 per Meter per MW.**

Award of Contract

**Evaluation is on overall schedule wise lowest basis. Bidder may bid for any of the two schedules or may bid for both the schedules as well meeting PQC criteria. Priced bid for Schedule 1 & schedule 2 would be opened simultaneously.**

- 3.3.1. After calculation of EBP for each **technically qualified** Bidder, Evaluation shall be done on schedule wise L-1 basis as per EBP calculated.
- 3.3.2. HPGRE will conduct the necessary legal search before the final Contract award, as per its guidelines and in line with their current practice.
- 3.3.3. **Break up of Purchase:**
  - HPRGE Shall Place two Separate Purchase orders (PO) per schedule as mentioned below;
  - 
  - **First Purchase Order** shall be placed for:-
    - For Ex-works (India) supply of all plant and equipment including mandatory spare
    - For providing all services i.e. Receipt, unloading at site, storage, installation, testing and commissioning, Inland Transportation for Delivery at Site, Inland Transit Insurance, Unloading, Storage, Handling at Site, Installation (including civil, structural steel work & allied work, if applicable), insurance covers other than Inland Transit Insurance, Testing and Commissioning of all the equipment supplied under the 'First Contract', and Civil Works, Land Area Development, acquiring Right of Way, Infrastructure Development & evacuation facility & all other services specified in the Contract Documents.
    - Acquisition/ Transfer of Land (applicable for Land as per Technical Specification)
  - **Second Purchase Order** shall be placed for Operation & maintenance of complete power evacuation system till interconnecting grid substation (including grid substation bays) along with consumables and spare parts for a period of Three (03) years from the date of commissioning of Full Project Capacity (hereinafter referred as "O&M contract").

**Note:**