File. No. 283/23/2019-GRID SOLAR
Government of India
Ministry of New and Renewable Energy
(Grid Solar Division)

Block No.14, C.G.O. Complex ,
Lodhi Road, New Delhi-110003
Date: 31.10.2019

Subject: Inviting Expression of Interest (EOI)/Bid for evaluation of the programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”.

Ministry of New and Renewable Energy (MNRE) intends to engage reputed organization/ experts/ consultant /company/society/institution/autonomous body to undertake evaluation of scheme viz. “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”.

2. Proposals are invited from the eligible, interested and registered parties/organization in four envelop system as per detailed document of the proposed study of the Scheme, annexed hereunder (Annexure-I), within three weeks from the date of notification inviting bids (by 17:30 hours 20/11/2019) in a sealed cover super scribing “Bid for evaluation of 5000 MW VGF scheme programme/scheme”.

3. The Ministry of New and Renewable Energy reserves the right to reject this Request for Proposal (RIP) without assigning any reason thereof.

(Neeraj Kumar)
Scientist-C, MNRE
Ph. 01126340707, Extn-1005
Email: neeraj.mnre@gov.in
Document for inviting EoI/Bid for evaluation of 5000 MW VGF Scheme

भारत सरकार/Government of India

नयीन और नवीकरणीय ऊर्जा मंत्रालय/Ministry of New & Renewable Energy
Block No. 14, CGO Complex, Lodhi Road, New Delhi-110 003
Grid Solar Power Division

*****

Dated 31st October, 2019

Subject: Inviting Expression of Interest (EOI) and Technical and Financial Proposal for evaluation of the programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”.

Ministry of New and Renewable Energy (MNRE) intends to engage reputed organization/expert/consultant/company/society/institution/autonomous body to undertake evaluation of scheme viz. “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM” as per the terms of reference given below.

A. Background

MNRE has been implementing the programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM” since February 2016.

The main objective of scheme is the implementation of at least 5000 MW Grid-connected solar PV power projects with Viability Gap Funding under Phase-II, Batch-IV of National Solar Mission (NSM))

Details on the scheme, applicable boundary conditions, objectives and scope of the scheme is also available at Ministry's website i.e. https://mnre.gov.in

B. Scope of Work of the evaluation study:

B.1 The Ministry desires to carry out an evaluation of the above programme/scheme with multiple objectives which include, inter alia, an assessment of its effectiveness, impact, lessons to be drawn, and need to continue with the programme/scheme.

B.2 The detailed study report on evaluation of the scheme with the following Terms of Reference (ToRs) will be prepared by consultant/bidder. Further detailed ToRs in line with the Template provided by MoF, DoE is placed at Annexure-E:

1. To determine the extent to which the scheme has been implemented during the period from FY 2015-16 to FY 2018-19 by random sample selections of solar projects out of total projects commissioned under the scheme coming to a sample size of not less than 10% of all the commissioned projects during the aforementioned period. The scale of performance and acceptance of the Scheme among SPDs in its existing / applicable norms.
2. Need & period for continuation of the Scheme

3. To bring out the effectiveness and outcome of the Scheme including satisfaction level of the beneficiary.

4. Critical analysis and evaluation of the SPDs selection criterion, methods and process adopted by the scheme implementing agency and to suggest better approach.

5. Assessment of the existing Central Financial Assistance (CFA) and to suggest changes in the same upward or downward or including disbursement mechanism to the future potential beneficiaries of the Scheme by working out the real IRR both project IRRs and Equity based IRRs after excluding the taxes.

6. Constraints and the steps required to remove these constraints through site visits and stakeholders’ consultation

7. To find out different constrains/bottleneck and suggest remedial measures if existing scheme extended for NE including Sikkim regions

8. Assessment of tariff for solar projects under the scheme and outside the scheme and comparison thereof and to arrive at solar tariff feasible in competitive market.

9. Ways and means to increase involvement of State Governments in implementation of the Scheme.

10. Physical verifications of at least 10% solar projects (selected at random) for post commissioned status functionality rate/CUF and plant parts installed thereof.

11. Review of present monitoring mechanisms and suggest modifications, if any.

12. Whether the scheme has achieved its objectives for which it was launched.

13. Impact Assessment of the scheme with effect on local area where the solar plants were commissioned.

14. Recommendations / suggestions for the improvement in the scheme for implementation in future for better social impact.

B.3 The evaluation is to be completed strictly within ‘four’ months from the date of the award of the study. This period is extendable by the MNRE at its discretion depending upon the requirements/ justification with a penalty at the rate of ₹ 5000/ day. Request for extension must be received in the Ministry one month prior to the expiry date.

B.4. The following schedule needs to be adhered:

a. By the end of 20 days from the date of award, the contracted organization shall make a presentation of the inception report of the study to the MNRE.

b. The first draft report of the study shall be submitted to the MNRE within three months from the date of award of the study after taking note of the points raised during the presentation.

c. The final report shall be submitted within one month after receiving the comments from the MNRE on the Draft Report.
C. Eligibility Criteria

i. MNRE invites Bids from Registered Institutions, Consultation Companies, Societies, Autonomous bodies and Associations having an experience of at least 5 years in conducting such assignments and engaged in renewable energy activities. The organizations should be reputed having an annual turnover of at least Rupees One crore per year during the last three years. Having sector specific experience and in-house capability to manage the assignment will be an added advantage.

ii. The bidder should not have been blacklisted by any Government Ministry/ Department/Institution/Agency/PSU/CPSE (Signed and Scanned copy of Self-declaration to that effect should be submitted along with the technical bid).

D. Submission of Bids

D.1 The bidders would be required to submit at the beginning itself in their bids the EOI, technical proposal, financial proposal and EMD in four separate covers in the manner described in the following paragraphs. The bidding evaluation would comprise of two parts: The first part of the bidding process would be evaluation of EOI. The second part of the bidding process would be evaluation of technical and financial proposals of firms shortlisted after evaluation of EOI. Bidder would also submit Declaration for Acceptance of Eoi Terms and Conditions as per Annexure-D.

D.2 Nationally and internationally reputed organizations with adequate and specific expertise in conducting such assignments are invited to submit their Bids to [be dropped in tender box kept, in MNRE, for the purpose/e-tendering]:

Shri. Neeraj Kumar,
Scientist ‘C’
Ministry of New and Renewable Energy,
Block-I4, C.G.O. Complex, Lodhi Road, New Delhi-110003

D.3 The Bids shall be submitted within three weeks from the date of notification inviting bids (by 17:30 hours 20/11/2019) in a sealed cover super scribing “Bid for evaluation of programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”. The EOI, Technical Bid, Financial Bid, and EMD are to be sealed in separate covers duly super scribed and these four sealed covers to be put in a bigger cover which should also be sealed and duly super scribed. Bids received after the due date shall be treated as late bids and will be summarily rejected.

D.4 All the pages in the bid document are to be signed by the authorized representative from the consultancy/bidder/company/organization.

E. Expression of Interest (EOI)

E.1 The following details are to be sent along with the Expression of Interest:

i. Full particulars of the Consultants, ownership, organizational structure and main activities of the prospective consultant, including details of full time professionals.
ii. Unabridged Annual Reports or Audited Financial Accounts for the last three years.
iii. Area of core competence
iv. Names and short CVs of the full time & part time researchers proposed to be involved in the work. The CVs must be accurate, complete and signed by an authorized official of the consultant/consulting firm and the individual proposed.
v. Available infrastructure
vi. Details of major assignments undertaken of similar nature, during the last five years.
vii. Experience of the Renewable sector, especially evaluation of programmes/ institutions of the sector

The format for the submission is provided as Annexure-A.

**Important:** No price bid, rates or cost estimate should be indicated in the EoI document. Bidders doing so will invite instant disqualification.

**F. Technical Bid**

F.1 The second part of the bidding process would be the Technical Bid on the capabilities of the organization and how the evaluation would be conducted by the organization.

F.2 The information given in the EoI would be treated as part and parcel of the technical bid and need not be given again in the technical bid.

F.3 The technical bid should include the following [The format for the submission is provided as Annexure-B]:

i. Understanding of the Programme and Scope of Work (from the perspective of the bidder).

ii. Approach & Methodology.
   - Approach: A detailed plan is to be proposed providing information on how the study would be conducted. The plan shall include the rationale behind the intended approach.
   - Methodology: The review team will be required to use different methods to ensure that data gathering and analysis deliver evidence-based qualitative and quantitative information based on diverse sources proposed by MNRE. The methods that could be used include but not be restricted to the following:
     - Desk Research by means of documentation
     - Web research
     - Semi-structured interviews with responsible stakeholders
     - Field visits
     - Questionnaires

iii. Task-wise activities
iv. Implementation Schedule
v. Roles and responsibilities

**Important:** No price bid, rates or cost estimate should be indicated in the Technical Bid document. Bidders doing so will invite instant disqualification

**G. Financial Bid**

**Bid Price**

Price Bid shall be lump-sum basis price, shall remain fixed as per the Financial Bid & accepted by MNRE. There shall be no increase in price for any reason whatsoever. Therefore, no request for any escalation of the cost / price shall be entertained.

The format for the submission is provided as Annexure-C
H. **EMD**

The EMD of ₹2,00,000/- (Rupees Two lakh only.) should accompany the technical bid by way of a Demand Draft, dated not before the date of notification of this bid and valid for at least six months, drawn in favour of DDO, MNRE, New Delhi and payable at New Delhi. The EMD would be forfeited if the bidder withdraws his/ her bid during the validity period. Bid received without EMD shall not be considered. The EMD of the awardee bidder will be released within one month after the successful accomplishment of the assignment without interest, while the EMD for others would be returned within one month of issue of letter of award to the successful bidder.

I. **Validity of the bid**

Bid shall remain valid for a period of not less than four months after the deadline date for bid submission. A bid valid for a shorter period shall be rejected by the Ministry as non-responsive. The MNRE may request the bidder to extend the period of validity for a specified additional period in exceptional circumstances. During this time/period the Bidders will maintain without change, the personnel proposed for the assignment and the proposed price.

J. **Evaluation of proposal**

J.1 At the first instance, the cover relating to EMD would be opened and bids of firms which have not paid a valid EMD in the required form and the bid would be summarily rejected at this stage.

J.2 The EOI covers of those bids which have adequate EMD would be opened next and evaluated on the basis of their organizational strength, financial strength and relevant experience. Only those firms which are found to be suitable on the three parameters would be shortlisted for the next stage.

J.3 The technical bids of firms shortlisted after EOI evaluation would be opened and evaluated next on information given in the EOI and the technical bid.

J.4 The firms would also be asked to give a presentation on the parameters to be considered for technical evaluation on a date to be given by the competent authority for evaluation of bids.

J.5 The technical bid evaluation would be done on the following parameters:

- Organizational and Financial Strength: 10 marks
- Overall experience of carrying out evaluation of programmes: 10 marks
- Experience related to renewable sector especially evaluation of Renewable programmes/ institutions: 15 marks
- Understanding of the programme to be evaluated and the scope of work: 10 marks
- Approach and Methodology: 20 marks
- Qualification of staff proposed to be deployed: 25 marks
- Quality of presentation: 10 marks
- Total: 100 marks

The firms which score a minimum of 70 marks would be shortlisted for the next stage.

J.6 Next the financial bids of the firms shortlisted after technical evaluation would be opened. The firm quoting the lowest bid would be declared the L1 bidder.

J.7 The Ministry reserves the right to reject all bids and call for fresh bids.
K. **Payment Terms**

The normal payment terms for the consultancy are scheduled as follows, unless agreed otherwise:

a. 20% of the total consultancy to be paid upon submission/presentation of an inception report (To be released against the Bank Guarantee for equal amount valid up to 02 months beyond the contracted time for the submission of final report);

b. 30% of the total consultancy to be paid on submission of the first draft of the evaluation report; and

c. 50% to be paid on submission of final evaluation study report (based on feedback from the Ministry) and acceptance of the evaluation study report by the Ministry.

L. **Data, services and facilities to be provided by the MNRE**

L1. Data available with MNRE will be shared with the consultant by MNRE with restricted use only for this evaluation study. No other services would be provided by the Ministry to the Consultant/Agency

L2. Important: The Ministry would not reimburse any of the expenses incurred by the Consultant/Agency towards preparation of the bid document, traveling cost, boarding and lodging incurred by it for attending any pre-bid discussion or bid meeting or visiting the Ministry for making the presentation. The Ministry shall in no case be responsible for any such costs whatsoever, regardless of the outcome of the bidding process

M. **Deliverables**

a. Inception report;
b. Soft Copy of the data and information;
c. 20 copies of final report in coloured printing and one soft copy also (PDF and Word format).
d. Coloured photographs of the systems/sites visited/evaluated.
e. Presentation to MNRE upon preparation of final report.

N. **Confidentiality, Intellectual Property Rights & Indemnity**

N.1 **Confidentiality**

The Bidder shall treat the details of the documents as secret and confidential. The Successful Bidder shall execute a separate Non-Disclosure Agreement and shall not exchange any information/data collected during the evaluation study under 5000 MW VGF scheme.

N.2 **Intellectual Property Rights**

All rights, title and interest of Ministry in and to the trade names, trademark, service marks, logos, products, copyrights and other intellectual property rights shall remain the exclusive property of MNRE and Bidder shall not be entitled to use the same without the express prior written consent of MNRE. Nothing in contract including any discoveries, improvements or inventions made upon with/by the use of the Bidder or its respectively employed resources pursuant to contract shall neither vest nor shall be construed so that to vest any proprietary
rights to the Bidder. Notwithstanding, anything contained in Contract, this clause shall survive indefinitely, even after termination of this Work Order (if undertaken).

N.3 **Indemnity**

The Bidder shall indemnify, protect and save MNRE and hold MNRE harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly or indirectly from

- An act of omission or commission of the Bidder, its employees, its agents, or in the performance of the services provided by this Agreement,
- Breach of any of the terms of this Agreement or breach of any representation or warranty or false statement or false representation or inaccurate statement or assurance or covenant by the Bidder,
- Bonafide use of the deliverables and or services provided by the Bidder,
- Misappropriation of any third party trade secrets or infringement of any patent, trademarks, copyrights etc. or such other statutory infringements in respect of all components provided to fulfill the scope of this project,
- Claims made by the employees, who are deployed by the Bidder, under this Agreement,
- Breach of confidentiality obligations of the Bidder,
- Gross negligence or gross misconduct solely attributable to the Bidder or by any of their employees for the purpose of any or all of the obligations under this Agreement.

The Bidder shall further indemnify MNRE against any loss or damage arising out of loss of data, claims of infringement of third-party copyright, patents, or other intellectual property, and third-party claims on MNRE for malfunctioning of the equipment or software or deliverables at all points of time, provided however, MNRE notifies the Bidder in writing immediately on being aware of such claim, and the Bidder has sole control of defense and all related settlement negotiations.

Bidder shall be responsible for any loss of data, loss of life, etc., due to acts of Bidder’s representatives, and not just arising out of gross negligence or misconduct, etc., as such liabilities pose significant risk.

O. **Work Order cancellation**

MNRE reserves its right to cancel the contract/work order in the event of one or more of the following situations;

- Serious discrepancy observed during performance as per the scope of project/evaluation work
- If the Bidder makes any statement or encloses any form which turns out to be false, incorrect and/or misleading or information submitted by the Bidder turns out to be incorrect and/or conceals or suppresses material information.

In case of contract/work order cancellation, any payments made by MNRE to the Bidder would necessarily have to be returned to MNRE with interest @15% per annum from the date of each such payment. Further the Bidder would also be required to compensate MNRE for any direct loss incurred by MNRE due to the cancellation of the contract and any additional expenditure to be incurred by MNRE to appoint any other Bidder. This is after repaying the original amount paid.
Termination of Contract

a. **For Convenience:** MNRE by written notice sent to Bidder may terminate the contract in whole or in part at any time for its convenience giving one **two weeks prior notice.** The notice of termination shall specify that the termination is for convenience the extent to which Bidder’s performance under the contract is terminated and the date upon which such termination become effective.

b. **For Insolvency:** MNRE may at any time terminate the contract by giving written notice to Bidder, if Bidder becomes bankrupt or insolvent. In this event, termination will be without compensation to Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to MNRE.

c. **For Non-Performance:** MNRE reserves its right to terminate the contract in the event of Bidder’s repeated failures, say more than 3 occasions in contracted period to maintain the service level prescribed by MNRE.

**P. Penalties**

**P.1 Liquidated Damages**

- Due to negligent act of the Bidder, if MNRE suffers losses, and incurs damages, the quantification of which may be difficult, the amount specified hereunder shall be construed as reasonable estimate of the damages and the Bidder shall agree to pay such liquidated damages as defined hereunder:
  - The total amount of liquidated damages under this engagement shall not exceed 5% of the total value of the contract/evaluation study work order.

**P.2 Blacklisting of Bidder**

In the event of any information / data / particulars furnished by the bidder are found to be incorrect, or it is found that the bidder has not done the assignment wilfully or through negligence or carelessness as per the ToR of this bid. Government of India will have the right to blacklist the company/organization for participating in future bids related to Government Ministry/department/Institution/ Agency/PSU/CPSE.

**Q. Bidder’s Liability**

The selected Bidder will be liable for all the deliverables.

- The Bidder’s aggregate liability in connection with obligations undertaken as part of the Project regardless of the form or nature of the action giving rise to such liability (whether in contract, tort or otherwise), shall be at actual and limited to the value of the contract.
- Indemnity would be limited to court awarded damages and shall exclude indirect, consequential and incidental damages. However, indemnity would cover damages, loss or liabilities, compensation suffered by MNRE.

**R. Notification of Award or Work Order**

After selection of the Successful Bidder and after obtaining internal approvals and prior to expiration of the period of Bid validity, MNRE will send Notification/letter of Award or work Order to the selected Bidder only.
S. **Governing Law**

This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the applicable laws of India.

**Applicable Law**

The Contract to be executed between MNRE and successful Bidder shall be interpreted in accordance with the laws of the Union of India and the Bidder shall agree to submit to the courts under whose exclusive jurisdiction the Office of MNRE falls.

For any further clarification, please contact to: Shri Neeraj Kumar, Scientist-C, Ministry of New and Renewable Energy, Block No.-14, C.G.O. Complex, Lodhi Road, New Delhi – 110003. Ph. 011-2436070, Extn. 1005. Email: neeraj.mnre@gov.in
Format for EOI “Regarding selection of Consultant for evaluation of the Programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”

To

Shri. Neeraj Kumar,
Scientist ‘C’
Ministry of New and Renewable Energy,
Block-14, C.G.O. Complex, Lodhi Road, New Delhi-110002.

Dear Sir,

We have understood the instructions and the terms and conditions mentioned in the Bid Document and are fully aware of the scope of work required. We are hereby submitting our “EOI” as per prescribed format:-

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Items</th>
<th>Particulars</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Name Of The Consultant/Firm</td>
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<tr>
<td></td>
<td>Telephone Number</td>
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<td></td>
<td>Fax No.</td>
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<td></td>
<td>Email:</td>
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<tr>
<td></td>
<td>Address Of The Consultant/Firm</td>
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<tr>
<td></td>
<td>Status Of The Firm, Ownership, If Registered Society Enclose Memorandum of Association, Registration Certificates</td>
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<tr>
<td>2</td>
<td>Details of Incorporation of the Consultant/Firm/Company (Date &amp; reference).</td>
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<tr>
<td>3</td>
<td>Valid GST/Service tax registration no.</td>
<td></td>
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<tr>
<td>4</td>
<td>Permanent Account Number (PAN)</td>
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<tr>
<td>5</td>
<td>Name, Designation &amp; contact details of the contact person to whom all references shall be made regarding</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Minimum Turnover Of The Organization Or Grant Received By The Organization During The Last Three Years (Enclose The Audited Financial Accounts/Balance Sheet) And Net Profit/Surplus Figure For Last Three Years</td>
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<td>7</td>
<td>Man Power Available (Give Details) - Qualification And Experience Etc. Of Key Personnel</td>
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<td>8</td>
<td>Available Infrastructure</td>
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<td>9</td>
<td>Area Of Core Competence (If Needed Attach Separate Sheet)</td>
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<tr>
<td>10</td>
<td>Details Of Major Assignments Of A Similar Nature Under Taken During The Last Five Years</td>
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<td>11</td>
<td>Experience of the Renewable sector, especially evaluation of programmes/ institutions of the sector.</td>
<td></td>
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<tr>
<td>12</td>
<td>Bank details of bidder/company/organization/institute (name of bank, branch address, Account holder name, account number, IFSC code, MICR &amp; latest signed mandate form)</td>
<td></td>
</tr>
</tbody>
</table>

For and on behalf of:
Signature: 
(Authorized Signatory)
Name of the Person:
Designation:
Place:
Date:
Annexure-B

Format for Technical Bid “Regarding selection of Consultant for evaluation of the Programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”

To
Shri. Neeraj Kumar,
Scientist ‘C’
Ministry of New and Renewable Energy,
Block-14, C.G.O. Complex, Lodhi Road, New Delhi-110003.

Dear Sir,

We have understood the instructions and the terms and conditions mentioned in the Bid Document and have thoroughly examined the Bid Document and are fully aware of the scope of work required.

We are hereby submitting our “Technical Proposal” as per prescribed format:-

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Items</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Name Of The Consultant/Firm</td>
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</tr>
<tr>
<td></td>
<td>Telephone Number, Fax Number &amp; Email</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address Of The Consultant/Firm</td>
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<tr>
<td>2</td>
<td>Understanding of the programme</td>
<td></td>
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<td>3</td>
<td>Understanding of Scope of Work</td>
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<tr>
<td>4</td>
<td>Action Plan &amp; Methodology Of Proposed Work (If Needed Attach Separate Sheets), which includes the inputs required for undertaking study from stakeholders</td>
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<td>5</td>
<td>Task wise activities and implementation schedule</td>
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<tr>
<td>6</td>
<td>Roles and Responsibilities: (which includes the following information):</td>
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<td></td>
<td>i. Minimum number of trained staff, which will be full time engaged for this study at the field level.</td>
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<tr>
<td></td>
<td>ii. Number of supervisory and other technical staff, which will be engaged in the design of the study and analysis of data.</td>
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<td></td>
<td>iii. Team Composition with Task Assigned (Name of Key Professional Staff, Position, Task assigned for this Assignment) Attach their CV also.</td>
<td></td>
</tr>
</tbody>
</table>

(Details on Man Power Available, Available Infrastructure, Area Of Core Competence, Details Of Major Assignments Of A Similar Nature Under Taken During The Last Five Years, etc would be taken from the EoI and need not be given again in the technical bid)

For and on behalf of:
Signature:
(Authorized Signatory)
Name of the Person:
Designation:
Format for Financial Bid “Regarding selection of Consultant for evaluation of the Programme/scheme “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM”

To
Shri. Neeraj Kumar,
Scientist ‘C’
Ministry of New and Renewable Energy,
Block-14, C.G.O. Complex, Lodhi Road, New Delhi-110003.

Dear Sir,

We have understood the instructions and the terms and conditions mentioned in the Bid Document and have thoroughly examined the Bid Document and are fully aware of the scope of work required.

We are hereby submitting our “Financial Proposal” as per prescribed format:

<table>
<thead>
<tr>
<th>SI No.</th>
<th>Subject Detail</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Total Amount quoted excluding GST and other taxes</td>
<td></td>
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<tr>
<td>2.</td>
<td>Tax Liabilities (i) plus (ii) below:</td>
<td></td>
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<tr>
<td></td>
<td>(i) GST</td>
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<td>(ii) Other taxes (Pl. mention)</td>
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<tr>
<td>3.</td>
<td>Total amount including taxes (1+2)</td>
<td></td>
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<tr>
<td>4.</td>
<td>Total amount in words (excluding taxes)</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Total amount in words (including taxes)</td>
<td></td>
</tr>
</tbody>
</table>

Note: The Financial Bid should be in the above format only, and any bid which is conditional in nature or in a different format is liable to be rejected.

For and on behalf of:

Signature:

(Authorized Signatory)
Name of the Person:
Designation:
Declaration for Acceptance of EoI Terms and Conditions
(On the Bidder's Letter Head)

To

Shri. Neeraj Kumar,
Scientist ‘C’
Ministry of New and Renewable Energy,
Block-14, C.G.O. Complex, Lodhi Road, New Delhi-110003.

Subject: “Evaluation Study of MNRE scheme......................”.

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the above referred EoI/Technical bid/Financial bid document of MNRE. I declare that all the provisions of this EoI/Technical bid/Financial bid are acceptable to my company/organization/society etc. I further certify that I am an authorized signatory of my Company/Firm and I am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder) Name

Designation Seal

Date:

Business Address:
Dated: 31st October, 2019

Terms of References (ToR) for evaluation study as per the template provide by MoF, DoE vide OM No. 66(59)PFC-II/2018-Pt dated 22-05-2019.

Name of Scheme: Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM.

1. Executive Summary

Ministry of New and Renewable Energy (MNRE) intends to engage reputed organization/expert/consultant/company/society/institution/autonomous body to undertake evaluation of scheme viz. "Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM".

2. OVERVIEW OF THE SCHEME

2.1 Background of the scheme

Jawaharlal Nehru National Solar Mission (JNNSM) was launched in January 2010 by Government of India with a target of 20,000 MW of solar power. The capacity addition through grid connected solar power has now been scaled up to 100 GW.

Ministry had launched three (3) VGF schemes namely: 750 MW, 2000MW & 5000MW VGF schemes under JNNSM and for these schemes Solar Energy Corporation of India (SECI) has been designated as the implementing agency.

SECI has implemented the first VGF scheme of 750 MW, under JNNSM Phase II, Batch I for setting up large scale ground-mounted solar PV projects on pan-India basis. The next batches of VGF scheme (viz.2000 MW-NSM Phase II, Batch III and 5000 MW –Phase II, Batch IV) are under implementation by SECI. Under these schemes, tenders have been brought out on state-specific basis, either in solar parks being developed in the states or outside solar parks.

The 5000 MW VGF scheme i.e. “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM” has been implemented since February 2016.

Details on the scheme, applicable boundary conditions, objectives and scope of the scheme etc., is available at Ministry’s website i.e. https://mnre.gov.in

a) Brief write up on the scheme including Objectives, Implementation Mechanism, Scheme architecture / design. Guideline of 5000 MW VGF scheme alongwith its amendments is available at Ministry’s website i.e. https://mnre.gov.in
Objectives: The objectives of the Scheme are:

i. The main objective of scheme is the implementation of at least 5000 MW Grid-connected solar PV power projects with Viability Gap Funding under Phase-II, Batch-IV of National Solar Mission (NSM).

ii. Scaling up of sizes of projects thereby leading to economies of scale.

iii. Facilitating speedier implementation of the solar power projects through adoption of mechanism of solar parks to meet the Phase-II target of NSM, wherever feasible, subject to meeting the timelines set by the Government of India.

iv. To supplement Grid power and spread out solar power projects throughout the country thereby reducing transmission cost and losses.

v. Provide long-term visibility and road map for solar power development enabling creation of India as manufacturing hub in the Solar PV.

vi. To create good business model and systems for various State Governments and DISCOMs to take forward.

vii. To facilitate energy security and fulfillment of Renewable Purchase Obligation (RPO) requirement of the obligated entities.

Implementation Mechanism and scheme architecture / design:

The Viability Gap Funding (VGF) scheme for setting up of over 5000 MW capacity of grid connected solar PV power projects by SPDs on build, own and operate basis, is being implemented through open and transparent competitive e-bidding. The solar power thus produced is being sold to the buying Discoms / State Utilities / bulk consumers at a pre-defined tariff or tariff discovered through competitive e-reverse biding, with a trading margin of 7 paisa per kWh by the SECI.

SECI selects projects through competitive e-bidding based on minimum VGF sought at predetermined solar tariff or there is a provision for quoting a discount on tariff at zero VGF.

SECI has been assigned to prepare necessary bidding documents for inviting the proposals for setting up of projects on a competitive e-bidding. SECI carries out evaluation of techno-commercial eligibility of the bidders and financial bid evaluation for selection of the projects. SECI enters into Power Purchase Agreement (PPA) with the selected SPDs and the Power Sale Agreement (PSA) with the buying entities. SECI ensures financial closure of the projects as per the timelines of PPAs/guidelines and oversee the implementation for timely completion of the projects.

The State-specific tenders worked out based on the demand from particular State. Projects could be set up in the Solar Parks being developed under a separate MNRE scheme and also at other locations, which could be selected by the bidders on their own. This is being clarified in the tender document by SECI based on available space in solar park in each State.

Approximately 1,250 MW capacity was envisaged for bidding in each of the four Financial Years viz. 2015-16, 2016-17, 2017-18 and 2018-19. Commissioning period is 13 months from the date of signing of PPAs. The maximum timeline with liquidated damages is 24 months from the date of signing of PPA.

b) Name of Sub-schemes / components

On 28.01.2019 Ministry had issued administrative approval for Implementation of a Subset component of existing 5000 MW Viability Gap Funding (VGF) Scheme for
setting up of 1000 MW Grid-Connected Solar PV Power Projects in North Eastern States including Sikkim under Jawaharlal Nehru National Solar Mission (JNNSM).

The administrative approval of NE sub scheme is placed at Ministry’s website i.e. https://mnre.gov.in.

e) Year of commencement of scheme

February 2016

d) Present status with coverage of scheme (operationaal / non-operational)

5000 MW VGF Scheme:

i. Tendered Capacity (MW)- 3925 MW
ii. Total Capacity Awarded (MW)- 3420 MW
iii. Capacity Commissioned (MW)- 2120 MW (as on 16.07.2019)

e) Sustainable Development Goals (SDG) Served

Out of the 17 SDG, this scheme has served following goals:-

Goal 7 : Affordable and clean energy
Goal 9 : Industry, innovation and infrastructure
Goal 13 : Climate action

f) National Development Plans (NDP) Served

➢ This scheme has served 12th five year plan of India.
➢ Against the National target of the 100GW solar power 2120 MW of the capacity has been commissioned under 5000MW.
➢ To create good business model and systems for various State Governments and DISCOMs to take forward.
➢ To facilitate energy security and fulfillment of Renewable Purchase Obligation (RPO) requirement of the obligated entities.

2.2 Budgetary allocation and expenditure pattern of the scheme

"Main Scheme"

The fund provision for VGF support were estimated at Rs. 5050 crore (@ Rs.1.0 crore/MW for open category and Rs.1.25 crore/MW for projects in DCR category) and to be made available to MNRE by Ministry of Finance (Department of Expenditure).

In the budgetary allocation of this Ministry, funds for this scheme are being allocated under Solar Grid Interactive Head 2810.00.101.01.04.35. The same head is being used for various schemes on grid connected programme. There is no separate allocation for this scheme (i.e., 5000 MW VGF scheme). Therefore figures, as shown below, for the entire solar grid interactive head of the Ministry.
<table>
<thead>
<tr>
<th>Scheme</th>
<th>Year 2016-17 (in Cr.)</th>
<th>Year 2017-18 (in Cr.)</th>
<th>Year 2018-19 (in Cr.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000 MW VGF</td>
<td>BE</td>
<td>RE</td>
<td>Actual</td>
</tr>
<tr>
<td></td>
<td>2048.00</td>
<td>1969.50</td>
<td>1970.18</td>
</tr>
</tbody>
</table>

Against the allocated budget of Rs. 5050 Cr. The phasing of investment under 5000 MW VGF scheme is estimated as under:

<table>
<thead>
<tr>
<th>Year</th>
<th>Total (Rs. Crore)</th>
<th>Handling &amp; Monitoring charges for SECI @ 1% (Rs Crore)</th>
<th>Total Fund requirement (Rs. Crore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>500.00</td>
<td>5.00</td>
<td>505.00</td>
</tr>
<tr>
<td>2016-17</td>
<td>1125.00</td>
<td>11.25</td>
<td>1136.25</td>
</tr>
<tr>
<td>2017-18</td>
<td>1125.00</td>
<td>11.25</td>
<td>1136.25</td>
</tr>
<tr>
<td>2018-19</td>
<td>1125.00</td>
<td>11.25</td>
<td>1136.25</td>
</tr>
<tr>
<td>2019-20</td>
<td>1125.00</td>
<td>11.25</td>
<td>1136.25</td>
</tr>
<tr>
<td>Total</td>
<td>5000.00</td>
<td>50.00</td>
<td>5050.00</td>
</tr>
</tbody>
</table>

Budget provision for the NE subset 1000 MW VGF scheme: The funds for this proposal will be disbursed under NE Head of budget allocation to MNRE.

2.3 Summary of past evaluation since inception of scheme

Not applicable

3. METHODOLOGY

3.1 Approach (Methodology adopted), Division of country into 6 Geographical Regions / Zones (North, South, East, West, North East and Central) as classified by NSSO.

Approach (Methodology): The Ministry may carry out an third party evaluation study of the 5000 MW VGF scheme/programme with multiple objectives which include, inter alia, an assessment of its effectiveness, impact, lessons to be drawn, and need to continue with the scheme/programme. For hiring the consultant/organization for the proposed evaluation study Ministry may issue EoI/Bid/RFP document.

The proposed Methodology to engage reputed organization/ experts/ consultant /company/society/institution/autonomous body to undertake evaluation of scheme viz. “Implementation of scheme for setting up of over 5000 MW Grid Connected Solar PV Power Projects with Viability Gap Funding under Batch-IV of Phase-II of the JNNSM” will be as per document for inviting EoI/Technical & Financial proposal/Bid.

Division of country into 6 Geographical Regions / Zones (North, South, East, West, North East and Central) as classified by NSSO:

Not applicable

3.2 Sample size and sample selection process, tools used: field study / questionnaire, primary and secondary data.
The detailed study report on evaluation of the scheme with the following TORs will be prepared by consultant/bidder:

a) To determine the extent to which the scheme has been implemented during the period from FY 2015-16 to FY 2018-19 by random sample selections of solar projects out of total projects commissioned under the scheme coming to a sample size of not less than 10% of all the commissioned projects during the aforementioned period. The scale of performance and acceptance of the Scheme among SPDs in its existing / applicable norms.

b) Need & period for continuation of the Scheme.

c) To bring out the effectiveness and outcome of the Scheme including satisfaction level of the beneficiary.

d) Critical analysis and evaluation of the SPDs selection criterion, methods and process adopted by the scheme implementing agency and to suggest better approach.

e) Assessment of the existing Central Financial Assistance (CFA) and to suggest changes in the same upward or downward or including disbursement mechanism to the future potential beneficiaries of the Scheme by working out the real IRR both project IRRs and Equity based IRRs after excluding the taxes.

f) Constraints and the steps required to remove these constraints through site visits and stakeholders’ consultation.

h) To find out different constrains/bottleneck and suggest remedial measures if existing scheme extended for NE including Sikkim regions.

k) Assessment of tariff for solar projects under the scheme and outside the scheme and comparison thereof and to arrive at solar tariff feasible in competitive market.

l) Ways and means to increase involvement of State Governments in implementation of the Scheme.

m) Physical verifications of at least 10% solar projects (selected at random) for post commissioned status functionality rate/CUF and plant parts installed thereof.

n) Revision of present monitoring mechanisms and suggest modifications, if any.

m) Whether the scheme has achieved its objectives for which it was launched.

n) Impact Assessment of the scheme with effect on local area where the solar plants were commissioned.

n) Recommendations / suggestions for the improvement in the scheme for implementation in future for better social impact.

4. OBJECTIVE OF THE STUDY

The details required under template Para- 4, 4.1, 4.2, 4.3, 4.4, 4.5 (mentioned hereunder) has been included in document for inviting EoI/Technical & Financial proposal/Bid.

4.1 Performance of the scheme based on the Output / Outcome indicators [as suggested by NITI or recorded in EFC / SFC memorandum]

4.2 Additional parameters

a) Coverage of beneficiaries (in following table)

<table>
<thead>
<tr>
<th>State</th>
<th>District</th>
<th>Urban</th>
<th>Rural</th>
<th>Urban</th>
<th>Rural</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
</tr>
</tbody>
</table>
b) Implementation mechanism

c) Training / Capacity building of administrators / facilitators

d) IEC activities

e) Asset / Service creation & its maintenance plan

f) Benefits (Individual, community)

g) Convergence with scheme of own Ministry / Department or of other Ministry / Department.

4.3 Gaps in achievement of outcomes

4.4 Key Bottlenecks & Challenges

4.5 Input Use Efficiency

5. OBSERVATIONS AND RECOMMENDATIONS

The details required under template Para- 5, 5.1, and 5.2 (mentioned hereunder) has been included in document for inviting Eol/Technical & Financial proposal/Bid.

5.1 Thematic Assessment

5.2 Externalities

6. CONCLUSION

The details required under template Para- 6, 6.1, 6.2, 6.3 (mentioned hereunder) has been included document for inviting Eol/Technical & Financial proposal/Bid.

6.1 Issues & challenges

6.2 Vision for the future

6.3 Recommendation for scheme with reasons (Choose option(s) below)

(a) Continue in existing form
(b) Continue with some Modifications- suggest modifications
(c) Scale up- financial/ Physical / both
(d) Scale down- financial/ Physical/ both
(e) Close
(f) Merge with another scheme as sub-scheme/component.

7. REFERENCES

Not Applicable

8. APPENDICES

Not Applicable