



DMRC LIMITED

INVITES REQUEST FOR SELECTION OF BIDDERS

FOR

CONTRACT- NE/SPV-01 (R)

“Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project including Operation and Comprehensive Maintenance (O&M) of the project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.

Technical Document

DMRCLIMITED
Metro Bhawan, Fire Brigade lane, Barakhamba Road,
New Delhi-110001, India.

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DMRC LIMITED

Contract:-NE/SPV-01 (R)

DMRC Limited (hereinafter called “DMRC”)on behalf of Noida Metro Rail Corporation (NMRC)invitesopen e-tenders from eligible applicants, who fulfill qualification criteria for the work of Design,Engineering,Supply, Storage, Civil work, Erection, Testing &Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.

For the implementation of above mentioned work, Bidders should submit/upload their bid proposal along with all supporting documents complete in all respect on or before the date and time given in the Notice of Invitation to Tender, online on e-tendering website <https://eprocure.gov.in/eprocure/app>

Bidder shall submit bid proposal along with non-refundable processing fee, complete in all respect as per the Bid Information sheet. Techno-Commercial bids will be opened in presence of authorized representatives of bidders who wish to be present. Bid proposals received without the prescribed processing fee and Bid Bond will be rejected. In the event of any date indicated above is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.

Bid documents which include Eligibility criteria, Technical Specifications, various conditions of contract, formats, etc. can be downloadedonline on e-tendering website <https://eprocure.gov.in/eprocure/app>.

The Bidder should regularly follow up for any Amendment / Corrigendum / Clarification on the above website.

DISCLAMIER:

1. Though adequate care has been taken while preparing the RFS document. The Bidders shall satisfy themselves that the document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within twenty (20) days from the date of notification of RFS/Issue of the RFS documents, it shall be considered that the RFS document is complete in all respects and has been received by the Bidder.
2. DMRC Limited (DMRC) reserves the right to modify, amend or supplement this RFS document including all formats and Annexures.
3. While this RFS has been prepared in good faith, neither DMRC nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this RFS, even if any loss or damage is caused by any act or omission on their part.

NOTICE INVITING TENDER (NIT)**1. Name of Work:**

Delhi Metro Rail Corporation (DMRC)Ltd.on behalf of Noida Metro Rail Corporation (NMRC)invites open e-tenders from eligible applicants, who fulfill qualification criteria for the work of“**Contract- NE/SPV-01 (R): Design, Engineering, Supply, Storage, Civil work, Erection, Testing &Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.**”

2. Key details:

Approximate cost of work	Rs. 60.00 Crore(Project Capacity – 10 MWp)
Tender Security amount	Amount of Tender Security:- 60 Lakhs Validity of Tender Security:-08.11.2018 Tender Security (in original) as per clause 3.14 of Section-I shall be accepted only up to 1500 hrs on 14.03.2018 in the office of Chief General Manager/Contracts at the address mentioned hereinafter.
Completion period of the Work	12 months from the date of issue of Allotment Letter
Tender documents on sale	From 09.02.2018 to 14.03.2018(upto 1500Hrs) on e-tendering website https://eprocure.gov.in/eprocure/app Tender document can only be obtained online after registration of tenderer on the website https://eprocure.gov.in/eprocure/app .
Cost of Tender documents	INR 23,600/- (inclusive of 18% GST) Non Refundable (Payment of tender document cost/ tender fee is to be made only by RTGS, NEFT & IMPS. No other mode of payment will be accepted. The detail of bank account of DMRC is mentioned below. The bidders will be required to upload scanned copies of transaction of payment of tender document cost/tender fee at the time of online bid submission.) (Copy of GST registration no. to be provided along with Tender document cost/ tender fee)
Last date of Seeking Clarification	19.02.2018(Queries from bidders after due date shall not be acknowledged)

Pre-bid Meeting	20.02.2018 at 1100 Hrs
Last date of issuing addendum	01.03.2018
Date & time of Submission of Tender	Tender submission start date: 05.03.2018(1100 hrs) Tender submission end date: 14.03.2018 (1500hrs)
Date & time of opening of Tender	15.03.2018 at 1500 Hrs.
Authority and place for submission of Tender Document cost, Pre-bid Meeting and seeking clarifications	Chief General Manager/Contracts, DMRC, 5 th floor, A-Wing, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi –110 001

ImportantNote: -All correspondence from DMRC pertaining to this tender till the award of the work with bidder shall be done by **Chief General Manager/Contracts, DMRC**. The bidders are advised to regularly check their email ID registered with their user account at e-tendering portal <https://eprocure.gov.in/eprocure/app> for any update / addendum / corrigendum / pre-bid and post-bid queries / any other correspondence by the Employer.

To facilitate payment of Tender Fee and Tender Security through RTGS, NEFT & IMPS, the details of bank account of DMRC is mentioned below:

Name of Bank	Bank's Address	Account Name & No.	Account Type	IFSC code
ICICI Bank	9A, Phelps Building, Connaught Place, New Delhi -110001	DMRC Ltd. Tender Cell A/C, 000705045337	Current	ICIC0000007

1.0. **DEFINITIONS & ABBREVIATIONS**

In this “Bid / RFS Document” the following words and expression will have the meaning as herein defined where the context so admits:

- 1.1. “**Affiliate**” shall mean a company that either directly or indirectly
- a. controls or
 - b. is controlled by or
 - c. is under common control with
- a) Bidding Company and “**control**” means ownership by one company of at least twenty six percent (26%) of the voting rights of the other company.
- 1.2. “**Achievement-linked Incentives**” shall mean as specified in Clause 3.30.
- 1.3. “**B.I.S**” shall mean specifications of Bureau of Indian Standards (BIS).
- 1.4. “**Bid**” shall mean the Techno Commercial and Price Bid submitted by the Bidder along with all documents/credentials/attachments annexure etc., in response to this RFS, in accordance with the terms and conditions hereof.
- 1.5. “**Bidder/Bidding Company**” shall mean Bidding Company submitting the Bid. Any reference to the Bidder includes Bidding Company / including its successors, executors and permitted assigns as the context may require”.
- 1.6. “**Bid Bond**” shall mean the unconditional and irrevocable bank guarantee to be submitted along with the Bid by the Bidder under Clause 3.14 of this RFS, in the prescribed Format- 3.
- 1.7. “**Bid Deadline**” shall mean the last date and time for submission of Biding response to this RFS as specified in Bid information Sheet.
- 1.8. “**Bid Capacity**” shall means capacity offered by the bidder in his Bid under invitation.
- 1.9. “**CEA**” shall mean Central Electricity Authority.
- 1.10. “**Chartered Accountant**” shall mean a person practicing in India or a firm whereof all the partners practicing in India as a Chartered Accountant(s) within the meaning of the Chartered Accountants Act, 1949.
- 1.11. “**Competent Authority**” shall mean Managing Director (MD) of DMRC Limited, himself and/or a person or group of persons nominated by MD for the mentioned purpose herein.
- 1.12. “**Commissioning**” means Successful operation of the Project / Works by the Contractor, for the purpose of carrying out Performance Test(s) as defined in RFS.
- 1.13. “**Company**” shall mean a body incorporated in India under the Companies Act, 1956 or Companies Act, 2013 including any amendment thereto.

- 1.14. **“Capacity Utilization Factor” (CUF)** means the ratio of the annual output of the plant in kWh versus installed plant capacity for number of days. $CUF = \text{plant output in kWh} / (\text{installed plant capacity in kWp (DC side)} * 365 \times 24)$.
- 1.15. **“City Limits”** means Municipal Corporation limits/Master Plan/Industrial area includes SEZ and IT park etc.
- 1.16. **“Eligibility Criteria”** shall mean the Eligibility Criteria as set forth in Clause 3.4 of this RFS.
- 1.17. **“Financially Evaluated Entity”** shall mean the company which has been evaluated for the satisfaction of the Financial Eligibility Criteria set forth in Clause 3.4.3 hereof.
- 1.18. **“IEC”** shall mean specifications of International Electro-technical commission.
- 1.19. **“kWp”** shall mean Kilo-Watt Peak.
- 1.20. **“kWh”** shall mean Kilo-Watt-hour.
- 1.21. **“MNRE”** shall mean Ministry of New and Renewable Energy, Government of India.
- 1.22. **“Maximum Bid Capacity”** shall mean the maximum capacity for which the Bidder can submit its Bid.
- 1.23. **“Model(s)”** shall mean RESCO.
- 1.24. **“O&M”** shall mean Operation & Comprehensive Maintenance of Rooftop Solar PV system.
- 1.25. **“Owner of the project”** shall mean anyone who has invested 100% of project cost in the rooftop Project or the Project Developer who has taken the roof on mutually agreed terms and conditions from the roof top owner(s) and enters into a PPA for supply of Rooftop Solar Power for at least 25 years from the date of Commissioning of project.
- 1.26. **“Project”** shall constitute all the roof top Solar PV Plants to be installed by the developer for a specific period and at a fixed cost for NMRC
- 1.27. **“Project Cost / Project Price”** shall mean the price offered by the Bidder for the Scope of work as per RFS document based on which Achievement-linked incentive amount will be calculated and paid by NMRC.
- 1.28. **“Project capacity”** means Capacity in kWp specified by NMRC for each station/site consisting of single or multiple roof tops. The project capacity specified is on “DC” output Side only.
- 1.29. **“Performance Ratio” (PR) means**
“Performance Ratio” (PR) means the ratio of plant output versus installed plant capacity at any instance with respect to the radiation measured. $PR = (\text{Measured output in kW} / \text{Installed Plant capacity in kW} * (1000 \text{ W/m}^2 / \text{Measured radiation intensity in W/m}^2))$.
- 1.30. **“Parent Company”** shall mean a company that holds at least fifty

- onepercent (51%) of the paid-up equity capital directly or indirectly in the Bidding Company as the case may be.
- 1.31. **“Project Company”** shall mean Company incorporated by the bidder as per Indian Laws in accordance with Clause no 3.5.
- 1.32. **“Project Sanction Documents”** shall mean the documents as specified in Annexure – A.
- 1.33. **“Price Bid”** shall mean Envelope III of the Bid, containing the Bidder’s quoted Price as per the Section- IV of this RFS.
- 1.34. **“Qualified Bidder”** shall mean the Bidder(s) who, after evaluation of their Techno Commercial Bid as per Clause 3.1 stand qualified for opening and evaluation of their Price Bid.
- 1.35. **“RFS”** shall mean Request for Selection (RFS)/Bid document/Tender document.
- 1.36. **“RESCO”** shall mean **Renewable Energy Service Companies.**
- 1.37. **“RESCO model”** shall mean where the bidders intend to take a rooftop/sites owned by NMRC on mutually agreed terms and conditions from NMRC and enters into the PPA with NMRC for supply of Solar power for 25 years from the date of Commissioning of project.
- 1.38. **“Statutory Auditor”** shall mean the auditor of a Company appointed under the provisions of the Companies Act, 1956/2013 or under the provisions of any other applicable governing law.
- 1.39. **“Successful Bidder(s) /Contractor/Project Developers(s)”** shall mean the Bidder(s) selected by DMRC pursuant to this RFS, for Implementation of Grid Connected Roof Top Solar PV System as per the terms of the RFS Documents, and to whom an Allocation Letter has been issued.
- 1.40. **“SECI”** shall mean Solar Energy Corporation of India, New Delhi (A Govt. of India Enterprise) under MNRE.
- 1.41. **“SNA”** shall mean State Nodal Agency.
- 1.42. **“Tendered Capacity”** shall mean the Total aggregate capacity in 10 MWp as indicated in table of Clause 2.2, proposed to be allocated by DMRC/NMRC to the Successful Bidder through this bidding process as per terms and conditions specified therein.
- 1.43. **“Ultimate Parent Company”** shall mean a company which directly or indirectly owns at least fifty one percent (51%) paid up equity capital in the Bidding Company) and/or in the Financially Evaluated Entity and such Bidding Company and /or the Financially Evaluated Entity shall be under the direct control or indirectly under the common control of such company.
- 1.44. **“Wp”** shall mean Watt Peak.

1.45. **INTERPRETATIONS**

1. Words comprising the singular shall include the plural & vice versa.
2. An applicable law shall be construed as reference to such applicable law including its amendments or re-enactments from time to time.
3. A time of day shall save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
4. Different parts of this contract are to be taken as mutually explanatory and supplementary to each other and if there is any differentiation between or among the parts of this contract, they shall be interpreted in a harmonious manner so as to give effect to each part.
5. The table of contents and any headings or sub headings in the contract has been inserted for case of reference only & shall not affect the interpretation of this agreement.

SECTION - I

A. INTRODUCTION, BID DETAILS AND INSTRUCTIONS TO THE BIDDERS

1.0. INTRODUCTION

- 1.1 DMRC on behalf of NMRC invites eligible applicants to participate in the bidding process for **“IMPLEMENTATION OF ROOFTOP SOLAR PV SYSTEM IN DEPOTS, METRO STATIONS, VIA DUCT, FOBs, PARKING AREAS AND INTERNAL ROADS, BUILDINGS & BOUNDARY WALLS OF DEPOTS OF NMRC Ltd.”**. The generated solar power will be utilized for captive application of NMRC and the surplus power will be fed to the NMRC grid. The scheme aims to reduce the fossil fuel based electricity load on main grid and make building self-sustainable from the point of electricity, to the extent possible.
- 1.2 The Bidder is advised to read carefully all instructions and conditions appearing in this document and understand them fully. All information and documents required as per the bid document must be furnished. Failure to provide the information and / or documents as required may render the bid technically unacceptable.
- 1.3 The bidder shall be deemed to have examined the bid document, to have obtained his own information in all matters whatsoever that might affect the carrying out of the works in line with the scope of work specified elsewhere in the document at the offered rates and to have satisfied himself to the sufficiency of his bid. The bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labor involved, wage structures and as to what all works he has to complete in accordance with the bid documents irrespective of any defects, omissions or errors that may be found in the bid documents.

2.0 BID DETAILS

- 2.1 The bidding process is for Solar PV system to be installed on rooftop of metro stations, depots, FOBs and on ground in parking areas and internal roads of the depot in RESCO model.
- 2.2 **(RESCO Model):-** Bids are invited from the prospective bidders for the Tendered Capacity as indicated below against selected sites of NMRC. NMRC shall be disbursing achievement-linked incentive according to sanctioned capacity, as per recent scheme introduced by MNRE (details explained in Clause 3.30) in place of subsidy which has been abolished. Successful bidder will be selected based on the lowest evaluated price subject to Clause 6.3 of RFS.

The achievement-linked incentive will be available only for the roof top sites, however no CFA is available for the solar PV system to be installed at ground mounted sites

Maximum allowable Levellised tariff for this part is Rs.3.91 Per kWh and the bids with Levellised tariff in excess of Rs.3.91 Per kWh will be rejected.

Tariff stream quoted by the bidder shall further confirm to the following:

- i) Tariff in the first three years shall not exceed Rs.3.91per kWh.
- ii) Tariff in any year from 4th year onwards shall either be equal to or more than the tariff in the immediately preceding year.

Note: Bids not in conformity with above provisions will be rejected.

List of Selected Sites by NMRC

S.No.	Sites of NMRC	Approx. capacity in %age	Approx. Capacity(kWp)
1	NMRC Depots and Metro stations, adjacent buildings and FOBs.	40%	4000
2	Internal roads of Depots and boundary walls	30%	3000
3	Parking areas and Viaduct	30%	3000
	Approx. Total Capacity		10000 kWp ~ 10 MWp

Above is indicative capacity. Bidders have to maximize as per site available.25% variation can be operated in these sites and any other sites. The tentative list of Sites is attached as Section VII.

The above sites or capacities indicated above may vary. However final allocation letter will indicate the capacities and sites allocated.

2.3 For each site, where the projects are required to be installed along with the respective capacities for each site is indicated in the tables above in Clause no 2.2. However, DMRC/NMRC reserves the right to allow the installation of projects in any other site at its own discretion depending on the merit of the case, as per the provisions provided hereinafter.

2.3.1 The preliminary survey details are attached as Section –VII, however bidder shall ensure survey of the site for the installation of capacities as indicated above and DMRC/NMRC holds no responsibilities for the correctness of the above data.AttachedSection –VII.

2.3.2 After the ‘Letter of Allocation’ the Bidder has to carry out the detailed survey of the sites and submit the calculation, and complete engineering document for the approval of DMRC.

2.4 SIZE OF THE PROJECTS

2.4.1 The size of each project may be in the range of **10kWp to 500 kWpor more** on each roof top unit can separately connect with the grid and may have separate energy meters.

2.4.2 Further, Successful bidders to whom letter of allocation has been issued will be allowed to submit proposal for approval and issue of sanction letter by DMRC. Sanction letter will be issued for the total aggregate capacity submitted by the bidder for approval as per above.

2.5 BID CAPACITY

- 2.5.1 The Bidder shall apply for 100% of Tendered capacity for selected sites indicated in table in Clause 2.2.

3.0 INSTRUCTIONS TO THE BIDDERS

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR "e-TENDERING" FORMING PART OF BID DOCUMENTS TO BE POSTED ON WEBSITE

- i) The intending bidders must read the terms and conditions carefully and should only submit his tender if he considers himself eligible and he is in possession of all the documents required.
 - ii) Information and instructions for bidders posted on website shall form part of tender documents.
 - iii) The complete Tender Document can only be obtained online after registration of bidder on the website <https://eprocure.gov.in/eprocure/app> and thereafter on providing details of RTGS / NEFT / IMPS (as prescribed in NIT). For further information in this regard bidders are advised to contact on 011-49424307, 011-49424365 or 011-23417910.
 - iv) Tender can only be submitted after uploading the mandatory scanned copy of documents such as RTGS / NEFT / IMPS towards cost of Bid Documents (as prescribed in NIT) and Tender Security (as prescribed in NIT and ITT).
 - v) Those bidders who are not registered on the website mentioned above shall be required to get registered beforehand. If needed, they can be imparted training on 'Online Tendering Process' as per details available on the website.
 - vi) The intending bidder must have valid **class-III / II** digital signature to submit the tender.
 - vii) On opening date, the bidder can login and see the tender opening process. After opening of tenders, bidder will receive the competitor bid sheets.
 - viii) Bidder can upload documents in the form of **JPG** format and **PDF** format.
 - ix) Bidder must ensure to quote rates only in excel sheet provided in bid document.
- 3.1. Bidder must meet the eligibility criteria independently as Bidding Company. Bidding consortium is allowed to participate in this bidding.

Bidder will be declared as a Qualified Bidder based on meeting the eligibility criteria and as demonstrated based on documentary evidence submitted by the Bidder in the Bid.

- i. Bidder may be from any country, either a single entity or any combination of entities in the form of a joint venture or association (JVA) under an existing agreement. In the case of a JVA: all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;

and the JVA shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JVA during the tendering process and, in the event the JVA is awarded the Contract, during contract execution.

- ii. A Bidder and all partners constituting the Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this tendering process, if:
 - a) Bidder and all partners constituting the Bidder has been engaged by the Employer to provide consulting services for the preparation related to procurement or for implementation of the project;
 - b) Bidder and all partners constituting the Bidder can be associates/affiliates (inclusive of parent firms) mentioned in subparagraph (a) above; or
 - c) A Bidder and all partners constituting the Bidder lends, or temporarily seconds its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
- iii. A Bidder and all partners constituting the Bidder shall submit only one tender in the same tendering process, either individually as a Bidder or as a partner of a JVA. A Bidder who submits or participates in, more than one tender will cause all of the proposals in which the Bidder has participated to be disqualified. No Bidder can be a subcontractor while submitting a tender individually or as a partner of a JVA in the same tendering process. A Bidder, if acting in the capacity of subcontractor in any tender, may participate in more than one tender, but only in that capacity.

iv. IN CASE OF JV/JVA/CONSORTIUM

- a. Lead partner must have a minimum of 26% participation in the JV/Consortium.
- b. Partners having less than 26% participation will be termed as non-substantial partner and will not be considered for evaluation which means that their financial soundness and work experience shall not be considered for evaluation of JV/Consortium.
- c. In case of JV/Consortium, change in constitution or percentage participation shall not be permitted at any stage after their submission of application otherwise the applicant shall be treated as non-responsive.

3.2. Bidder can however use the technical and financial strength of its Parent

Company / Affiliate Company to fulfill the Technical and/or Financial Eligibility criteria mentioned below. In such case, Bidders shall submit an Undertaking from the Parent Company / Affiliate Company as per Format - 8 and also furnish a certificate of relationship of Parent Company or Affiliate with the Bidding Company as per Format - 9, Company Secretary certificate towards shareholding pattern of the Parent Company and the Bidding Company along with a Board resolution from the Parent Company.

- 3.3 Qualified Bidders who have submitted their proposal for this RFS may be empanelled by DMRC for an initial period of one year which can be further extended if required by competent authority of DMRC. This empanelment may be used by DMRC for inviting bids under RESCO model in future for the sites indicated in table of Clause 2.2 or any other sites as per instruction given by DMRC on case to case basis, whose terms and conditions of the bidding shall be communicated during the bid stage.

3.4 **ELIGIBILITY CRITERIA**

3.4.1 **GENERAL**

- (a) The Bidder should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto and engaged in the business of Solar Power.

A copy of certificate of incorporation/ may be furnished along with the bid in support of above

- i) A Bidder may be from any country, either a single entity or any combination of entities. In the case of a JVA/Consortium: all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms; and the JVA/Consortium shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JVA/Consortium during the tendering process and, in the event the JVA is awarded the Contract, during contract execution.
- ii) A Bidder and all partners constituting the Bidder, can be from any country and any areas. A non-Indian firm is permitted to tender only in a joint venture or consortium arrangement with any other Indian firm having minimum participation interest of 26% or their wholly owned Indian subsidiary registered in India under Companies Act-1956 or 2013 with minimum 26% participation.
- iii) A Bidder and all partners constituting the Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this tendering process, if:
- (a) Bidder and all partners constituting the Bidder has been engaged by the employer to provide consulting services for the preparation related to procurement or for implementation of the project;

- (b) Bidder and all partners constituting the Bidder is any associates/affiliates (inclusive of parent firms) mentioned in subparagraph (a) above; or
- (c) A Bidder and all partners constituting the Bidder lends, or temporarily seconds its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
- iv) A Bidder and all partners constituting the Bidder shall submit only one tender in the same tendering process, either individually as a Bidder or as a partner of a JVA. A Bidder who submits or participates in, more than one tender will cause all of the proposals in which the Bidder has participated to be disqualified. No Bidder can be a subcontractor while submitting a tender individually or as a partner of a JVA in the same tendering process. A Bidder, if acting in the capacity of subcontractor in any tender, may participate in more than one tender, but only in that capacity.
- v) Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.
- vi) A firm, who has purchased the tender document in their name, can submit the tender either as individual firm or in JV/JVA.
- vii) Any DMRC / Any Central / State government department or public sector undertaking / other government entity or local body must not have banned business with the Bidder (including individual members in case of JV / Consortium) as on the date of Bid submission. Also no work of the Bidder must have been rescinded / terminated by DMRC / any central or State Govt. Department/ Public Sector Undertaking / Other Govt. entity or local body after award of contract during last 3 years (from the last day of the previous month of tender submission) due to non-performance of the Bidder or any of JV / Consortium. The Bidder should submit undertaking to this effect in Format-15.
- viii) Tenderer (including any member in case of JV/consortium) for the works awarded by DMRC/ any other Metro Organisation (100% owned by Govt.) must have been neither penalised with liquidated damages of 10% (or more) of the contract value due to delay nor imposed with penalty of 10% (or more) of the contract value due to any other reason in any "Similar work" Works of value more than 10% of NIT cost of work, during last three years. The Bidder should submit undertaking to this effect in Format-16.
- ix) Bidder (any member in case of JV/consortium) must not have suffered bankruptcy/ insolvency during the last 5 years. The Bidder should submit undertaking to this effect in Format-17.
- x) **IN CASE OF JV/JVA/ CONSORTIUM**
- a. Lead partner must have a minimum of 26% participation in the JV/Consortium.
- b. Partners having less than 26% participation will be termed as non-

substantial partner and will not be considered for evaluation which means that their financial soundness and work experience shall not be considered for evaluation of JV/Consortium.

- c. In case of JV/Consortium, change in constitution or percentage participation shall not be permitted at any stage after their submission of application otherwise the applicant shall be treated as non-responsive.

xi) **JV/Consortium: Consequences for deviation from JV/MOU**

The Bidder, in case of JV/Consortium, shall clearly and unambiguously define the role and responsibilities for each substantial/non-substantial partner in the JV/ MOU submitted vide foot note (d) of Format A , providing clearly that any abrogation/subsequent re-assignment of any responsibility by any substantive/non-substantive partner of JV/Consortium in favour of other JV/Consortium partner (without written approval of Employer) or any change in constitution of partners of JV/Consortium from the one given in JV/MOU at tender stage, will be treated, as 'breach of contract condition' and/or 'misrepresentation of facts' (as the case may be).

The Employer in such cases, may in its sole discretion rescind the contract and/or take appropriate action against any member(s) for failure in tender obligation to declare a contractor ineligible for award of any tender in DMRC or take action to terminate the contract in part or whole as the situation may demand and recover the cost/damages as provided in contract besides forfeiting the performance and other guaranties.

- (b) The bidder should have valid GST/ CST/State VAT/TIN registration certificate. Registration document(s) to be provided by the bidder where it is presently Operational / Company is registered. **(Copy to be furnished in support).**

- xii) (a) Tenderer (including any member in case of JV/consortium) has not been put on defaulter's list of EPF/ESI/GST/Labour Deptt. etc during the last three years (from the last day of the previous month of tender submission).The tenderer should submit undertaking to this effect in the Format -19of Form of Tender.

(b) Tenderer (including any member in case of JV/consortium) should not be involved in any illegal activity and/or has not been charge sheeted for any criminal act during last three years (from the last day of the previous month of tender submission). The tenderer should submit undertaking to this effect in the Format -19. of Form of Tender.

(c)Also no contract of the tenderer of the value more than 10% of NIT cost of work, executed either individually or in a JV/Consortium, should have been foreclosed or scope under that contract is reduced by DMRC after award during last three years (from the last day of the previous month of tender

submission) due to non-performance of the tenderer or any of JV/Consortium members. The tenderer should submit undertaking to this effect in Appendix-27 of Form of Tender.

3.4.2 **TECHNICAL ELIGIBILITY CRITERIA**

- a) The Bidder should have total installed & commissioned
 - (i) Grid connected Solar PV Project of **minimum 5 MWp (Total Capacity) during last 10 years ending 31.12.2017** and
 - (ii) Roof top Solar PV Project of **minimum 1000 kWp (Total Capacity) in the last 10 years ending 31.12.2017.**

The list of projects commissioned indicating whether the project is grid connected, along with a copy of the Commissioning certificate and Work order /Contract / Agreement/ from the Client/Owner shall be submitted. The format is attached as in **Format – 10.**

3.4.3 **FINANCIAL ELIGIBILITY CRITERIA**

- a. The Bidder should have an Annual Turnover and Net worth as indicated below:-
 - i. **Annual Turnover:** The annual turnover in any one of the last 5 financial years should be \geq Rs. 20.00 Crores.

In Case of JV/JVA – The Bidder must fulfill the following conditions:

- a. Lead partner must have a minimum of 26% participation in the JV/Consortium.
- b. Partners having less than 26% participation will be termed as non-substantial partner and will not be considered for evaluation which means that their financial soundness and work experience shall not be considered for evaluation of JV/Consortium.
- c. In case of JV/Consortium, change in constitution or percentage participation shall not be permitted at any stage after their submission of application otherwise the applicant shall be treated as non-responsive.

Example: Let Member-1 has percentage participation = M and Member - 2 has = N. Let the average annual turnover of Member-1 is 'A' and that of Member-2 is 'B', then the average annual turnover of JV will be

$$\frac{AM+BN}{100}$$

And

- ii. **Net Worth:** Net Worth of Bidder during last audited financial year should be \geq Rs.15.00 Crores

In Case of JV/JVA, the algebraic sum total of networth of all the members as per the latest audited balance sheets shall be considered the Net Worth of the Bidder.

Example: Let Member-1 has percentage participation = M and Member - 2 has =N. Let the Net worth of Member-1 is 'A' and that of Member-2 is 'B', then the Net worth of JV will be

$$\frac{AM+BN}{100}$$

- Where a work is undertaken by a group, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.
- Financial data for latest last five audited financial years has to be submitted by the Bidder in Format -7and Format-12along with audited balance sheets. The financial data in the prescribed format shall be certified by Chartered Accountant with his stamp and signature in original. In case audited balance sheet of the last financial year is not made available by the bidder, he has to submit an affidavit certifying that 'the balance sheet has actually not been audited so far'. In such a case the financial data of previous '4' audited financial years will be taken into consideration for evaluation. If audited balance sheet of any year other than the last year is not submitted, the tender will be considered as non-responsive. But in case the company is operative for less than 5 years, it still can be considered provided its financial standing meets the tender requirement based on available audited balance sheets.

3.5 INCORPORATION OF A PROJECT COMPANY

- 3.5.1 In case the Bidder wishes to incorporate a Project Company, in such a case Bidder if selected as a Successful Bidder shall incorporate a Project Company. Bidder shall be responsible to get all clearances required/obtained in the name of the Bidding Company transferred in the name of the Project Company.
- 3.5.2 The aggregate equity share holding of the Successful Bidder (Individual or in case of JV/JVA) minimum in proportion to their percentage participation in the issued and paid up equity share capital of the Project Company shall not be less than fifty one percent (51%) up to a period of Twenty Five (25) years from the date of commissioning of the entire Sanctioned Capacity of the Project Developer. The Successful Bidder may invest in the equity share capital of the Project Company through its Affiliate(s) or Parent Company or Ultimate Parent Company. If the Successful Bidder so invests, the Successful Bidder shall be liable to ensure that minimum equity holding/Lock in limits specified above are still maintained.
- 3.5.3 In case of JV, JVA or Consortium being successful bidder, they must incorporate a project company, who will carry out the work and sign the PPA with NMRC.

Note: Procedure and List of Documents to be submitted by the successful bidder in regard to the incorporation of the Project Company (Power

Producer in the PPA) are defined in Section-VIII.

3.6 BID SUBMISSION BY THE BIDDER

- 3.6.1 The information and/or documents shall be submitted by the Bidder as per the formats specified in Section-IV & Section -V of biddocument.
- 3.6.2 Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures /pamphlets. Non-adherence to formats and / or submission of incomplete information may be a ground for declaring the Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of the Bidder.
- 3.6.3 The Bidder shall furnish documentary evidence in support of meeting Eligibility Criteria as indicated in Clause no. 3.4.1, 3.4.2 and 3.4.3 to the satisfaction of DMRC.

3.7 BID SUBMITTED BY A BIDDING COMPANY

- 3.7.1 The Bidder shall submit a duly notarized written Power of Attorney (POA) authorizing the signatory(ies) of the Tender to commit the Bidder of each member of the partnership, consortium or joint venture along with copy of Board Resolution/authorization in favour of signatory to POA. In case of Foreign Partners, Power of Attorney(s) and Board Resolution confirming authority on the persons issuing the Power of Attorney for such actions shall be submitted duly notarized by the notary public of country of origin and should be either stamped by Embassy/High Commission or Member Countries of Hague convention may submit all these documents with "Apostille" stamp. Also in case the documents are in foreign language the translation of the same shall be authenticated by Embassy/High Commission.
- 3.7.2 Each Bidder (each member in the case of joint venture or consortium) is required to confirm and declare with his Tender that no agent, middleman or any intermediary has been, or will be, engaged to provide any services, or any other item or work related to the award and performance of this Contract and declare that no agency commission or any payment which may be construed as an agency commission has been, or will be, paid and that the tender price will not include any such amount. To fulfil this requirement, the Bidder(each member in case of JV/Consortium) has to sign the declaration given as Format 14 Section V. If the Employer subsequently finds to the contrary, the Employer reserves the right to declare the Bidder as non-compliant, and declare any Contract if already awarded to the Bidder to be null and void.
- 3.7.3 Canvassing or offer of an advantage or any other inducement by any person with a view to influencing acceptance of a Tender will be an offence under laws of India. Such action will result in the rejection of the Tender, in addition to other punitive measures.

3.8 CLARIFICATIONS AND PRE-BID MEETING

- 3.8.1 The Bidder shall check the pages of all documents against page numbers given in indexes and summaries and, in the event of discovery of any discrepancy; the Bidder shall inform the DMRC forthwith.
- 3.8.2 The tenderer for any reason whatsoever, be in doubt about the meaning of anything contained in the Invitation to Tender, Tender Documents, Technical Specifications and Tender Drawings, should seek clarification from CGM/Contracts by uploading the same on e-tendering portal, not later than the last date of seeking clarification given in the key details of Notice Inviting Tender. Any such clarification, together with all details on which clarification had been sought, will be copied to all tenderer without disclosing the identity of the tenderer seeking clarification.
- 3.8.3 Except for any such written clarification by CGM/Contracts, DMRC which is expressly stated to be by way of an addendum to the documents and/or for any other document issued by the Employer which is similarly described, no written or verbal communication, representation or explanation by any employee of the Employer or the Engineer shall be taken to bind or fetter the Employer or the Engineer under the Contract.
- 3.8.4 **Correspondence:** All correspondence from DMRC pertaining to this tender till the award of the work with Bidder shall be done by **Chief General Manager/Contracts, DMRC**. The bidders are advised to regularly check their email ID registered with their user account at e-tendering portal <https://eprocure.gov.in/eprocure/app> for any update/addendum/ corrigendum/pre-bid and post-bid queries/any other correspondence by the Employer.
- 3.8.5 The Bidder(s) or their authorized representative(s) is /are invited to attend pre-bid meeting (s), which will take place on date(s) as specified in Bid information sheet, or any such other date as notified by DMRC.
- 3.8.6 The purpose of the pre-bid meeting will be to clarify any issues regarding the RFS including in particular, issues raised in writing and submitted by the Bidders.
- 3.8.7 DMRC is not under any obligation to entertain/ respond to suggestions made or to incorporate modifications sought for.

3.9 AMENDMENTS TO RFS BY DMRC

- 3.9.1 At any time prior to the deadline for submission of Bids, the DMRC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFS document by issuing clarification(s) and/or amendment(s).
- 3.9.2 During the tender period, the Employer may issue further instructions to Bidders or any modifications to existing tender documents in the form of an addendum. Such an amendment in the form of an addendum will be made available at e-tendering website <https://eprocure.gov.in/eprocure/app> to all

prospective Bidders who have purchased the tender document in the tender period.

Without prejudice to the order the provisions in such addenda shall take priority over the Invitation to Tender and Tender Documents issued previously. Bidders should acknowledge receipt of such addenda and include them in the tender submittal.

3.9.3 DMRC will not bear any responsibility or liability arising out of non-receipt of the information regarding Amendments in time or otherwise. Bidders must check the website for any such amendment before submitting their Bid.

3.9.4 The Bidder should note that there might be aspects of his Tender and/or the evaluation documents submitted with the Tender that will necessitate discussion and clarification. It is intended that any aspect of the said evaluation documents and any amendments or clarification which are to have contractual effect will be incorporated into the Contract either:

(a) by way of Special Conditions of Contract to be prepared by the Employer and agreed in writing by the Bidder prior to and conditional upon acceptance of the Tender; or

(b) by the Bidder submitting, at the written request of the Employer, documents which are expressly stated to form part of the Tender, whether requested before or after submission of the documents forming part of the Tender and whether as supplements to, or amended versions of such documents.

3.9.5 Save as aforesaid, all such amendments or clarifications shall have contractual effect.

3.9.6 All the notices related to this Bid which are required to be publicized shall be uploaded on-line on e-tendering website <https://eprocure.gov.in/eprocure/app>.

3.10 BIDDING PROCESS

i. Uploading of Tender

The Bidder shall submit their tender on-line on e-tendering website <https://eprocure.gov.in/eprocure/app>.

Only 'Tender Security' and ' Document' shall be submitted in originals (in physical form) as described below:

- The Bidder shall seal the 'Tender Security' in an envelope, bearing the following identification for Tender Security:

“TENDER SECURITY”, Tender Reference No. – **Contract: - NE/SPV-01 (R)** and submit the same before date and time of submission of tender mentioned in NIT at the address mentioned below. The Bidder shall also mention his Name and address on above envelope.

To,

The Chief General Manager/Contracts

DMRC,
5th Floor, A-Wing, Metro Bhawan,
Fire Brigade Lane,
Barakhamba Road,
New Delhi.110001;

The Bidder shall ensure that they had received receipt/acknowledgement of their tender submission which is generated by the system itself on successful submission of tender online.

3.10.1 BID FORMATS

3.10.1.1 The Bid in response to this RFS shall be submitted by the Bidders in the manner provided in Clause 3.6 & Clause 3.10.1.1. The Bid shall comprise of the following:

(A) COVERING LETTER, BID PROCESSING FEE AND BID BONDS

- i. Covering Letter as per prescribed Format-1.
- ii. Bid processing fee @ Rs. 23,600/- (Twenty Three Thousand Six Hundred Only) Non Refundable.
- iii. Bid Bond, as per the prescribed Format-3 shall be submitted for the specified capacity as per Clause 3.14.
- iv. Checklist for Bank Guarantee submission requirements as prescribed in Format-5

(B) TECHNO-COMMERCIAL DOCUMENTS (Technical Package of Contract:- NE/SPV-01 (R))

- i. Power of attorney issued by the Bidding Company in favor of the authorized person signing the Bid, in the form attached hereto as Format-6 or standard power of attorney in favor of authorized person signing the Bid.

(Power of Attorney must be supplemented by Board Resolution to above effect for the company incorporated under Company Act 1956 or Company Act-2013). However, Employer may accept general Power of Attorney executed in favor of Authorized signatory of the Bidder, if it shall conclusively establish that the signatory has been authorized by the Board of Directors to execute all documents on behalf of the Bidding Company.

In case of Indian firm, the power of Attorney shall be on Non Judicial stamp paper of suitable value, duly notarized. In case of foreign applicant the power of Attorney shall be notarized in their country, and attested by the Embassy of their country in India.

- ii. General particulars of bidders as per Format-2.
- iii. Bidder's composition and ownership structure as per prescribed Format-A.
- iv. Document in support of meeting Eligibility Criteria as per Clause no. 3.4.1 & 3.4.2.

- v. Details for meeting Financial Eligibility Criteria as per Clause no. 3.4.3 in the prescribed Format-9 along with documentary evidence for the same.
- vi. Undertakings from the Financially Evaluated Entity or its Parent Company/ Ultimate Parent Company as per Format-9.
- vii. Board Resolution of the Parent Company /Ultimate Parent Company of the Bidding Company duly certified by the Company Secretary or Authorized signatory to provide the Performance Bank Guarantee (PBG) in the event of failure of the Bidding Company to do so.
- viii. Signed and stamped Copy of RFS Documents including amendments & clarifications by Authorized signatory on each page.

(C) PRICE BID(S) AS PER SECTION-IV,Format-B and Format-C (Financial Package of Contract:-NE/SPV-01 (R))

The Bidder shall inter-alia take into account the following while preparing and submitting the Price Bid duly signed by an authorized signatory. These are to be uploaded separately as financial package.

- i.) The Bidder shall submit Price Bid(s) in **Format B and Format C**.

3.11 TENDER DUE DATE

The Bidder shall, on or before the date and time given in the Notice of Invitation to Tender submit his Tender online on e-tendering website <https://eprocure.gov.in/eprocure/app>

3.12 VALIDITY OF TENDER

- 3.12.1 The Tender shall be valid for a period of 180 days (both days inclusive i.e. the date of submission of tenders and the last date of period of validity of the tender) from the latest Date of Submission of Tenders, with bidder having no right to withdraw, revoke or cancel his offer or unilaterally vary the offer submitted or any terms thereof. In case of the bidder revoking or cancelling his offer or varying any term & conditions in regard thereof or not accepting letter of allocation, DMRC shall forfeit the Bid Bond furnished by him. *Confirmation regarding the Bid offer validity shall be clearly mentioned in the covering letter.*
- 3.12.2 In exceptional circumstances when letter of allocation is not issued, the DMRC may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The Bid Bond provided under Clause 3.14 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid Bond. A Bidder granting the request will neither be required nor permitted to modify its Bid in any manner.

3.13 INSTRUCTION REGARDING ONLINE BIDSUBMISSION

- 3.13.1 The Bidder shall, on or before the date and time given in the Notice of Invitation to Tender submit his Tender online on e-tendering website

<https://eprocure.gov.in/eprocure/app>, comprising of following.

Technical Package of "Contract: -NE/SPV-01 (R)"

Financial Package of " Contract: -NE/SPV-01 (R)"

3.13.2 Deleted

3.13.3 Deleted

3.13.4 Deleted

3.13.5 All pages of the Bid, except for the Bid Bond, and any other document executed on non-judicial stamp paper, forming part of the Bid and corrections in the Bid, if any, must be signed by the authorized signatory on behalf of the Bidder. It is clarified that the same authorized signatory shall sign all pages of the Bid. However, any published document submitted with the Bid shall be signed by the authorized signatory at least on the first and last page of such document, duly signed by the authorized signatory of the Bidder. No change or supplemental information to a Bid will be accepted after the Bid Deadline, unless the same is requested for by DMRC.

3.13.6 The Bid must be complete in all technical and commercial respect and should contain requisite certificates, drawings, informative literature etc. as required in the Bid document. Each page of the Bid document should be signed & stamped. Bids with any type of change or modification in any of the terms/ conditions of this document shall be rejected. If necessary, additional papers may be attached by the Bidder to furnish/ submit the required information. Any term/ condition proposed by the Bidder in his bid which is not in accordance with the terms and conditions of the RFS document or any financial conditions, payment terms, rebates etc. mentioned in Price Bid shall be considered as a conditional Bid and will make the Bid invalid.

3.13.8 BIDDING METHODOLOGY

Single-stage Two-Bid System
(Technical Part and Financial Part to be submitted at the same time) shall be followed

A. Broad outline of activities from Bidders perspective:

- i) Procure Digital Signature Certificates (DSC) for users of the organization (if not procured earlier)
- ii) Register your organization on one-Tendering Portal of DMRC (<https://eprocure.gov.in/eprocure/app>) if not already registered
- iii) Download Official Copy of Tender Documents and Addendum/Clarification etc. uploaded on e-Tendering Portal.
- iv) Online Bid-Submission on one-tendering Portal.
- v) Attend Online Public Tender Opening Event (TOE) for Techno-Commercial Bid.
- vi) Post-TOE Clarification on one-Tendering Portal (Optional)

- vii) Attend Public Online Tender Opening Event (TOE) for Financial Bidone-Tendering Portal – Opening of Financial-Part (Only for Technically Responsive Bidders).

B. Digital Certificates

For integrity of data and its authenticity/ non-repudiation of electronic records, and to become compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC), of Class III/ II or above, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

C. Registration

To use the e-Tendering Portal (<https://eprocure.gov.in/eprocure/app>) the Bidder needs to register on the portal. Registration of bidders organization is to be done by one of its authorised representative.

D. Other Instructions

The following **'FOUR KEY INSTRUCTIONS for BIDDERS'** must be assiduously adhered to:

- i) Obtain individual Digital Signature Certificate (DSC or DC) well in advance of tenders submission deadline on e-Tendering Portal.
- ii) Register your organization on e-Tendering Portal well in advance of tenders submission deadline on e-Tendering Portal.
- iii) Get your organization's concerned executive trained on e-Tendering Portal well in advance of tenders submission deadline on e-Tendering Portal.
- iv) Submit your bids well in advance of tenders submission deadline on e-Tendering Portal (There could be last minute problems due to internet timeout, breakdown etc.) While the first three instructions mentioned above are especially relevant to first-time users of e-Tendering Portal, the fourth instruction is relevant at all times.

E. Minimum Requirements at Bidders end

- Computer System with good configuration (Min PIV, 1GB RAM, Windows XP SP3)
- Broadband Internet Connectivity.
- Microsoft Internet Explorer 7.0/8.0/9.0 or Google Chrome.
- Class-III Digital Certificate(s)

F. Submission of Tenders

Uploading of Tender: The Bidder shall submit their tender on-line on e-tendering website <https://eprocure.gov.in/eprocure/app>.

Only 'Tender Security' shall be submitted in originals (in physical form) as described below:

except in case of RTGS, NEFT and IMPS, in an envelope, bearing the following identification for tender security: **“Tender Reference No.– Contract:NE/SPV-01(R) submit the same as per schedule mentioned in NIT at the address mentioned below. The tenderer shall also mention his Name and address on above envelope.**

- The Bidder shall seal the ‘Tender Security’ in an envelope, bearing the following identification for Tender Security:

“TENDER SECURITY”, Tender Reference No. – **Contract: -NE/SPV-01 (R)** and submit the same before date and time of submission of tender mentioned in NIT at the address mentioned below. The Bidder shall also mention his Name and address on above envelope.

To,

The Chief General Manager/Contracts

DMRC,

5th Floor, A-Wing, Metro Bhawan,

Fire Brigade Lane,

Barakhamba Road,

New Delhi.110001;

The Bidder shall ensure that they had received receipt/acknowledgement of their tender submission which is generated by the system itself on successful submission of tender online.

G. Late or Delayed Tenders

- i) Tenders have to be uploaded on e-tendering portal <https://eprocure.gov.in/eprocure/app> before the due date and time of tender submission. The tender security shall be submitted to Assistant Engineer in the office of **Chief General Manager/ Contracts, DMRC ‘A’-Wing, 5th Floor, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi.110001**. It shall be the responsibility of the bidder to ensure that the envelope containing ‘Tender Security’ is submitted to designated officer (Assistant Engineer) before the dead line for submission.
- ii) ‘Tender Security’ and ‘Cost of Tender Document’ submitted after due date and time shall not be accepted and online tenders of such Bidders shall liable to be rejected summarily.
- iii) DMRC will not be responsible for delay, loss or non receipt of ‘Tender Security’ sent by post / courier.
- iv) DMRC shall not be responsible for ‘Tender Security’ delivered to any other place / person in DMRC (like Reception/ DAK section etc.) other than the designated officer and does not reach the designated officer before the dead line for submission.
- v) The Employer may, at his discretion, extend the deadline for submission of tenders by issuing an amendment in accordance with paragraph B4, in which

case all rights and obligations of the Employer and the Bidder previously subject to the original deadline will thereafter be subject to the deadline as extended.

3.13 **COST OF BIDDING**

3.13.1 The bidder shall bear all the costs associated with the preparation and submission of his offer, and the company will in no case be responsible or liable for those costs, under any conditions. The Bidder shall not be entitled to claim any costs, charges and expenses of and incidental to or incurred by him through or in connection with his submission of bid even though DMRC may elect to modify / withdraw the invitation of Bid.

3.14 **BID BOND**

The Bidder shall furnish the Interest free Bid Bond of **Rs60 Lakhs only (Rupees Sixty Lakhs only)** in any one of the form given in clause 3.14.1 given below.

The validity of Bid Bond shall be as specified in NIT, which shall be extended by the bidder as per the bid validity. The Bid Bond of tenderers who fail in technical evaluation shall be returned after opening of financial package. The Bid Bond of the unsuccessful tenderers in financial opening shall be released after issue of Letter of Acceptance (LOA) to successful tenderer or finalization of tender. The Bid bond of successful bidder shall be returned after award of work and submission of Performance BG and signing of Power Purchase Agreement between NMRC and Power Producer.

Any deviation in Bid security with regard to amount, validity and format shall be considered as material deviation and bid shall be dealt accordingly.

In case of a joint venture / consortium, the Bid Bond is to be submitted in the name of the JV/consortium not the individual member(s). However, there may be more than one BG but all must be in the name of JV/consortium.

No clarification shall be sought from the bidders regarding bid security.

3.14.1 The Bid Bond shall be denominated in Indian Rupees and shall be in any one of the following forms:

- i. Demand Draft / Pay Order / Bank Draft / NEFT/ IMPS/ RTGS in favour of DMRC Ltd. payable at New Delhi from a Scheduled Commercial Bank based in India as given in Annexure-B.
- ii. Irrevocable bank guarantee issued by a Scheduled Commercial bank (including scheduled Commercial Foreign Banks) in India in the form given in Format-3. The bank Guarantee must be issued on Structured Financial Messaging System (SFMS) platform only.
- iii. Fixed Deposit Receipt (FDR) of a Schedule Commercial bank / Post Office based in India duly pledged in favour of DMRC Ltd.

- iv. BG submitted in its original form; copies will not be accepted; and remain valid for a minimum period of 60 days from latest Tender validity date, or beyond any period of extension subsequently requested under Clause 3.12.2.

3.14.2 The Successful Bidder shall sign and stamp the Allocation Letter and return the duplicate copy of same to DMRC within 15 days from the date of its issue.

3.14.3 The Bid Bond shall be forfeited without prejudice to the Bidder being liable for any further consequential loss or damage incurred to DMRC:

- a. If a Bidder withdraws/revokes or cancels or unilaterally varies his bid in any manner during the period of Bid Validity specified in the RFS document and in accordance with the Clause 3.12.2.
- b. If the Successful Bidder fails to unconditionally accept the Allocation letter within 15 days from the date of its issue.
- c. If the Successful Bidder fails to furnish the "Performance Security" as per the Clause 3.15.

3.15 PERFORMANCE SECURITY/PERFORMANCE BANK GUARANTEE (PBG)

3.15.1 Within 30 days from the date of issue of Allocation letter, Successful Bidder shall furnish the Performance Security calculated in the same manner as Bid specified hereunder.

The formula applicable to calculate the Performance Security amount will be:-
Performance Security amount = (Rs. 16.25 Lakh per MWp) X Allocated Capacity (in MWp) i.e. Rs16.25 Lakhs X 10MWp= **Rs. 1.625 Cr.**

The Performance security can be submitted in any of the following forms:-

- (a) Bank draft in favour of "Delhi Metro Rail Corporation Ltd.", payable at "New Delhi" from a Scheduled Commercial Bank based in India, or
- (b) Fixed Deposit Receipt of a Scheduled Commercial Bank / Post Offices based in India duly pledged in favour of "Delhi Metro Rail Corporation Ltd.", or
- (c) Irrevocable bank guarantee in the prescribed format, given in Annexure-7 of Instruction to Tenderers (ITT), issued by a Scheduled Commercial Bank based in India or from a branch in India of a Scheduled foreign bank. The bank guarantee must be issued on the Structured Financial Messaging System (SFMS) platform. A separate invoice of the BG will invariably be sent by the issuing bank to the Employer's bank through SFMS. The details of Employer's bank are as under:

ICICI BANK LTD
9A, Phelps Building, Connaught Place, New Delhi-110001.
IFSC Code; ICIC0000007

Following codes are to be used by issuing bank for the purpose of Confirmation and amendment in Bank Guarantees:-

Code	Purpose
MT760	Confirmation of bank guarantee
MT767	Amendment in bank guarantee

The bank guarantee issued on the SFMS platform shall only be acceptable to the Employer.

Bank Guarantee issued on the SFMS platform with any other code other than mentioned above for the purposes shall not be acceptable to the employer.

- 3.15.2 Not Used.
- 3.15.3 Not Used.
- 3.15.4 Not Used.
- 3.15.5 The Performance Security shall be denominated in Indian Rupees and shall be in one of the following forms:
- a. A demand draft, or a bank guarantee from the List of banks as given in Annexure-B.
 - b. Be confirmed for payment by the branch of the bank giving the bank guarantee at New Delhi.
- 3.15.6 The PBG shall be forfeited as follows without prejudice to the Bidder being liable for any further consequential loss or damage incurred to NMRC.
- a. If the Successful Bidder is not able to submit Project Sanction Documents (as per Annexure-A) to the satisfaction of DMRC.
 - b. If the Successful Bidder is not able to commission the projects to the satisfaction of NMRC, for which allocation letter/sanction letter has been issued.
 - c. If power producer is not able to pay penalty on account of not meeting CUF of minimum 14% in any year subject to acceptable degradation in modules as per tender.
 - d. In all the above cases corresponding allocated capacity shall stand cancelled.
 - e. Termination of Power Purchase agreement due to Power Producer's default.
- 3.15.7 The Performance Security initially shall be valid for a minimum period of 24 months from the date of issue of Allocation letter(s). Thereafter PBG shall be extended every year for next one year upto tenure of PPA and value can be revised as per the % reduction in residual value of Plant cost as mentioned in schedule III of Power Purchase Agreement (PPA) format attached.
- ❖ Power Purchase Agreement format is provided in Tender document. Successful bidder shall submit the performance Bank Guarantee and shall

sign the PPA with NMRC within 60 days of date of sign of allocation letter.

3.16 OPENING OF BIDS

- 3.16.1 The tenders shall be opened online by the opening committee on due date and time of tender opening. On opening of the Tender, DMRC will first check the tender cost and tender security through online mode by cross verifying with the hard copy submitted.
- 3.16.2 If the documents do not meet the requirements of the Employer, a note will be recorded accordingly by the Tender Opening Authority.
- 3.16.3 NOT USED.
- 3.16.4 The Technical Package of all bidders who have submitted a valid tender security and cost of tender document shall be opened in the presence of representatives of bidders who choose to attend on date & time as mentioned in tender document in the office of the **Chief General Manager/Contracts, DMRC, 5th Floor, A-Wing, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi.110001**. Bidders may visit DMRC e-procurement web-site to know latest Technical Opening information after completion of opening process. Bidders can also see the Technical Sheets (check-list) of other bidders after completion of opening process by logging into the web-site. If such nominated date for opening of Tender is subsequently declared as a Public Holiday by the Employer, the next official working day shall be deemed as the date of opening of Technical Package. The Tender of any bidder who has not complied with one or more of the foregoing instructions may not be considered.
- 3.16.5 The Financial Package(s) which bidder(s) have uploaded online will be opened on a subsequent date after evaluation of technical packages. Financial packages of only those bidders whose submissions are found substantially responsive and technically compliant will be opened. The time of opening of financial package shall be informed separately to only the Bidders who have qualified during Technical evaluation stage and bidders can be present to witness opening of Financial Package. Bidder can visit to DMRC e-procurement website for updates in this regard.

3.17 RIGHT TO WITHDRAW THE RFS AND TO REJECT ANY BID

- 3.17.1 This RFS may be withdrawn or cancelled by the DMRC at any time without assigning any reasons thereof. The DMRC further reserves the right, at its complete discretion, to reject any or all of the Bids without assigning any reasons whatsoever and without incurring any liability on any account.
- 3.17.1.1 The DMRC reserve the right to interpret the Bid submitted by the Bidder in accordance with the provisions of the RFS and make its own judgment regarding the interpretation of the same. In this regard the DMRC shall have no liability towards any Bidder and no Bidder shall have any recourse to the DMRC with respect to the selection process. DMRC shall evaluate the Bids using the evaluation process specified in Section-I, at its sole discretion. DMRC decision in this regard shall be final and binding on the Bidders.

- 3.17.2 DMRC reserves its right to vary, modify, revise, amend or change any of the terms and conditions of the Bid before submission. The decision regarding acceptance or rejection of bid by DMRC will be full and final.

3.18 ZERO DEVIATION

- 3.18.1 This is a ZERO Deviation Bidding Process. Bidder is to ensure compliance of all provisions of the Bid Document and submit their Bid accordingly. Tenders with any deviation to the bid conditions shall be liable for rejection.

3.19 EXAMINATION OF BID DOCUMENT

- 3.19.1 The Bidder is required to carefully examine the Technical Specification, terms and Conditions of Contract, and other details relating to supplies as given in the Bid Document.
- 3.19.2 The Bidder shall be deemed to have examined the bid document including the agreement/contract, to have obtained information on all matters whatsoever that might affect to execute the project activity and to have satisfied himself as to the adequacy of his bid. The bidder shall be deemed to have known the scope, nature and magnitude of the supplies and the requirements of material and labor involved etc. and as to all supplies he has to complete in accordance with the Bid document.
- 3.19.3 Bidder is advised to submit the bid on the basis of conditions stipulated in the Bid Document. Bidder's standard terms and conditions if any will not be considered. The cancellation / alteration / amendment / modification in Bid documents shall not be accepted by DMRC.
- 3.19.4 Bid not submitted as per the instructions to bidders is liable to be rejected. Bid shall confirm in all respects with requirements and conditions referred in this bid document.

SECTION - I

B. GENERAL CONDITIONS OF CONTRACT(GCC)

3.20 SCOPE OF WORK

3.20.1 The scope of work for the bidder include detailed survey of sites identification in this tender, Design,Engineering,Supply, Storage, Civil work, Erection, Testing &Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC..

3.21 PROJECT COST

3.21.1 The Project cost shall include all the costs related to above Scope of Work. Bidder shall quote for the entire facilities on a “single responsibility” basis such that the total Bid Price covers all the obligations mentioned in the Bidding Documents in respect of Design, Engineering, Supply, Storage Civil work, Erection, Testing &Commissioning of the Rooftop Solar PV project including Operation and Comprehensive Maintenance (O&M) of the project in RESCO Model for a period of 25 years after commissioning of projects, goods and services including spares required if any during O&M period. The Bidder has to take all permits, approvals and licenses, Insurance etc., provide training and such other items and services required to complete the scope of work mentioned above.

3.21.2 Not Used.

3.21.3 The project cost shall remain firm and fixed and shall be binding on the Successful Bidder till completion of work for payment of achievement-linked incentive amount irrespective of his actual cost of execution of the project. No escalation will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.

3.21.4 The cost shall be inclusive of all duties and taxes, insurance etc .The prices quoted by the firm shall be complete in all respect and no price variation /adjustment shall be payable

3.21.5 The operation & maintenance of Rooftop Solar Photovoltaic Power Plant would include wear, tear, overhauling, machine breakdown, insurance, and replacement of defective modules, invertors / Power Conditioning Unit (PCU), spares, consumables & other parts for a period of 25 years.

3.21.6 Not Used.

3.21.7 The Bidder shall complete the Price Bid-I(Format-B) and/or Price Bid – II (Format-C) furnished in the RFS Documents.

3.22 Not Used.

3.23 INSURANCE

3.23.1 The Bidder shall be responsible and take an Insurance Policy for transit-cum-storage-cum-erection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing

and commissioning. The bidder shall also take appropriate insurance during O&M period.

3.23.2 The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and also covering the risks of damage to the third party/material/equipment/properties during execution of the Contract including O&M period covering structural damages & fire hazard. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.

3.23.3 **WARRANTEES AND GUARANTEES**

The Bidder shall warrant that the goods supplied under this contract are new, unused, of the most recent or latest technology and incorporate all recent improvements in design and materials.

The bidder shall ensure warrantee covering the rectification of any and all defects in the design of equipment, materials and workmanship including spare parts for a period of minimum 2 years from the date of commissioning or more as considered suitable.

The successful bidder has to transfer all the Guarantees /Warrantees of the different components to the Owner of the project. The responsibility of operation of Warrantee and Guarantee clauses and Claims/ Settlement of issues arising out of said clauses shall be joint responsibility of the Successful bidder and the owner of the project and DMRC or NMRC will not be responsible in any way for any claims whatsoever on account of the above.

3.24 TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP

3.24.1 The design, engineering, manufacture, supply, installation, testing and performance of the equipment shall be in accordance with latest appropriate IEC/Indian Standards as detailed in the Section- III (Technical specifications) of the bid document. Where appropriate Indian Standards and Codes are not available, other suitable standards and codes as approved by the MNRE shall be used.

3.24.2 The specifications of the components should meet the technical specifications mentioned in Section III.

3.24.3 Any supplies which have not been specifically mentioned in this Contract but which are necessary for the design, engineering, manufacture, supply & performance or completeness of the project shall be provided by the Bidder without any extra cost and within the time schedule for efficient and smooth operation and maintenance of the SPV plant.

3.25 OPERATION & MAINTENANCE (O&M)

The bidder shall be responsible for operation and maintenance of the Roof top

Solar PV system for a period of 25 years for during which NMRC will monitor the project for effective performance in line with conditions specified elsewhere in the bid document. During this period, the bidder shall be responsible for supply of all spare parts as required from time to time for scheduled and preventive maintenance, major overhauling of the plant, replacement of defective modules, inverters, PCU's etc. and maintaining log sheets for operation detail, deployment of staff for continuous operations and qualified engineer for supervision of O&M work, complaint logging & its attending.

The developer is responsible for the water proofing of the roof disturbed / pierced for installation of Solar Power System for the whole O&M period (25 Years). To ensure the water proofing, a third party inspection jointly with power producer and power purchaser will be conducted annually. The developer should immediately take necessary action to repair any damage to the water proofing. NMRC may impose suitable penalty for the delay caused to resolve the issue.

3.26 METERING AND GRID CONNECTIVITY

Net Metering and grid connectivity of the roof top solar PV system under this scheme would be the responsibility of the Bidder in accordance with the prevailing guidelines of the DMRCor NMRC and/or CEA (if available by the time of implementation). NMRC could facilitate connectivity; however the entire responsibility lies with bidder only.

3.27 PLANT PERFORMANCE EVALUATION

The successful bidder shall be required to meet minimum guaranteed generation with Performance Ratio (PR) at the time of commissioning and related Capacity Utilization Factor (CUF) as per the GHI levels of the location during the O&M period. PR should be shown minimum of 75% at the time of inspection for initial commissioning acceptance to qualify for release of subsidy as per Clause 6.8 of Section-II. Minimum CUF of 14% should be maintained for a period of 2 years for release of achievement-linked incentive and later on upto 25 years. The bidder should send the periodic plant output details to NMRCfor ensuring the CUF. The PR will be measured at Inverter output level during peak radiation conditions.

3.27.1 PENALTY ON LOWER PERFORMANCE

The successful bidder shall be responsible for the energy generation of the Solar PV power plant for the whole O&M period of 25 years. If in anyyear of the term of agreement the energy generation is found to be less than the value committed by successful bidderthrough Schedule IV of PPA (calculated on the basis of minimum CUF of 14% with acceptable degradation values as in tender), a penalty amount as per formula below will be imposed to successful bidder. If

successful bidder is unable to pay the penalty in the stipulated time (i.e. 30 Days), the same will be deducted from the subsequent bills and the balance amount will be paid to the bidder.

Penalty = 2 X (committed generation as per Schedule-IV of PPA – Actual generation during the same period) X (Average cost of electricity from grid per unit at the end of that year applicable to power purchaser – applicable solar power tariff payable to power producer for that year).

Example:

Suppose bidder has committed for a generation of 1,31,400 kWh by a plant of 100 kWp for a particular year. The Average cost of electricity from grid is Rs. 8.00/kWh and solar tariff of that year is Rs. 6.00/kWh as per price bid. The actual energy generated by that plant for that year is 1,31,000. So the energy difference happened to be 400 kWh. Corresponding penalty imposed would be $2 \times (131400 - 131000) \times (8 - 6) = \text{Rs. } 1600.00$

So the Penalty that should be paid to NMRC for that year by the bidder would be Rs. 1600.00.

3.28 PROGRESS REPORT

The bidder shall submit the progress report fortnightly (15 days) to NMRC in Prescribed Performa. NMRC will have the right to depute his/their representatives to ascertain the progress of contract at the premises of works of the bidder.

3.29 PROJECT INSPECTION

The project progress will be monitored by NMRC and the projects will be inspected for quality at any time during commissioning or after the completion of the project either by officer(s) from NMRC or any authorized agency/experts.

DMRC/NMRC may depute a technical person(s) for inspection, Third party verification, monitoring of system installed to oversee, the implementation as per required standards and also to visit the manufacturers' facilities to check the quality of products as well as to visit the system integrators to assess their technical capabilities as and when required.

Any visit to the facility by DMRC/NMRC or its representatives shall not be construed as an endorsement by DMRC/NMRC of the operation, maintenance, modification and repair procedures employed by bidder at the facility unless the same is projected in the report.

3.30 ACHIEVEMENT LINKED INCENTIVE

Based on the MNRE's Guidelines as per letter no. 03/88/2015-16/GCRT dated 30th Mar 2017, the provisions for achievement-linked incentives will be as follows:

S.No.	Achievement vis-a-vis Target allocation	*Incentives for General Category States (Bench mark cost of Rs. 6.0 Cr/MWP)
1	80% and above within the sanctioned period	Rs.15,000/- per kW
2.	Below 80% and up to 50% within the sanctioned period	Rs. 9,000/- per kW
3.	Below 50%/ delayed commissioning up to 6 months beyond the sanctioned period	Rs. 6,000/- per kW

* Incentive amount will be upto 25% of the bench mark cost as per clause 6.8.

- a. The achievement –linked incentives vis-a-vis allocated targets will be valid during the period of the implementation of ‘Grid Connected Rooftop and Small Power Plants Programme’.
- b. The RTS projects based on the achievement-linked incentives may be implemented through Ministries/ Departments, Solar Energy Corporation of India (SECI), respective Central PSUs, DISCOMs, ULBs, State Government Departments/State Nodal Agencies (SNAs).
- c. Amendments to above provisions of the scheme may be carried out by Ministry with the prior approval of the Hon’ble Minister of New and Renewable Energy.

3.31 APPLICABLE LAW

The Contract shall be interpreted in accordance with the laws of the Union of India.

3.32 SETTLEMENT OF DISPUTE :-

Please refer Clause 17.8 of Power Purchase Agreement.

3.32.1 Not Used.

3.32.2 Not Used. In case the contractor is a public sector enterprise or a government department.

3.32.3 Not Used.

3.32.4 In case the contractor is not a public sector enterprise or a government department.

3.32.4.1 Not Used.

3.32.4.2 Not Used.

3.32.4.3 Not Used.

3.32.4.4 Not Used.

3.32.4.5 Not Used.

3.32.4.6 Not Used.

3.32.4.7 Not Used.

3.32.5 Not Used.

3.33 FORCE MAJEURE

3.33.1. Notwithstanding the provisions of clauses contained in this RFS document; the NMRC shall not forfeit (a) Security deposit for delay and (b) termination of contract; if Contractor is unable to fulfill his obligation under this contract due to force majeure conditions.

3.33.2. For purpose of this clause, "Force Majeure" means an event beyond the control of the contractor and not involving the contractor's fault or negligence and not foreseeable, either in its sovereign or contractual capacity. Such events may include but are not restricted to Acts of God, wars or revolutions, fires, floods, epidemics, terrorist attacks, quarantine restrictions and fright embargoes etc.

Whether a "Force majeure" situation exists or not, shall be decided by DMRC/NMRC and its decision shall be final and binding on the contractor and all other concerned.

3.33.3. In the event that the contractor is not able to perform his obligations under this contract on account of force majeure, he will be relieved of his obligations during the force majeure period. In the event that such force majeure extends beyond six months, DMRC/NMRC has the right to terminate the contract in which case, the security deposit shall be refunded to him.

3.33.4. If a force majeure situation arises, the contractor shall notify DMRC/NMRC in writing promptly, not later than 14 days from the date such situation arises. The contractor shall notify DMRC/NMRC not later than 3 days of cessation of force majeure conditions. After examining the cases, DMRC/NMRC shall decide and grant suitable additional time for the completion of the work, if required.

As per the relevant law, in event of a disagreement between parties on existence of force majeure event arbitration shall decide.

3.34 LANGUAGE

3.34.1. All documents, drawings, instructions, design data, calculations, operation, maintenance and safety manuals, reports, labels and any other data shall be in English Language. The contract agreement and all correspondence between the NMRC and the bidder shall be in English language.

3.35 OTHER CONDITIONS

- 3.35.1. The Successful bidder shall not transfer, assign or sublet the work under this contract or any substantial part thereof to any other party without the prior consent of DMRC/NMRC in writing.
- 3.35.2. The Successful bidder or its subcontractors shall not display the photographs of the work and not take advantage through publicity of the work without written permission of DMRC/NMRC.
- 3.35.3. The Successful bidder or its subcontractors shall not make any other use of any of the documents or information of this contract, except for the purposes of performing the contract.
- 3.35.4. DMRC/NMRC will not be bound by any Power of Attorney granted/ issued by the Successful bidder or its subcontractors or by any change in the composition of the firm made during or subsequent to the execution of the contract. However recognition to such Power of Attorney and change (if any) may be given by DMRC/NMRC after obtaining proper legal advice, the cost of which will be chargeable to the Successful bidder concerned.
- ❖ Consultancy and Labor contracts can be sub contracted, with the approval of DMRC/NMRC.

3.35.5. **SUCCESSORS AND ASSIGNS**

In case the NMRC or Successful bidder may undergo any merger or amalgamation or a scheme of arrangement or similar re-organization & this contract is assigned to any entity (ies) partly or wholly, the contract shall be binding mutatis mutandis upon the successor entities & shall continue to remain valid with respect to obligation of the successor entities.

3.35.6. **SEVERABILITY**

It is stated that each paragraph, clause, sub-clause, schedule or annexure of this contract shall be deemed severable & in the event of the unenforceability of any paragraph, clause, sub-clause, schedule or the remaining part of the paragraph, clause, sub-clause, schedule annexure & rest of the contract shall continue to be in full force & effect.

3.35.7. **COUNTERPARTS**

This contract may be executed in one or more counterparts, each of which shall be deemed an original & all of which collectively shall be deemed one of the same instrument.

3.35.8. **RIGHTS & REMEDIES UNDER THE CONTRACT ONLY FOR THE PARTIES**

This contract is not intended & shall not be construed to confer on any person other than the NMRC & Successful bidder hereto, any rights and / or remedies herein.

3.35.9. **PRICE PREFERENCE FOR M.S.M.E/ STATE OR CENTRAL PSUs**

There is no relaxation in terms of any conditions of the RFS or price preference or processing fee or Bid Bond or PBG for M.S.M.E/ State or

Central PSUs.

3.35.10. **CORRESPONDENCE**

Applicant requiring any Techno-Commercial clarification of the bid documents may contact in writing or by Fax.

Verbal clarifications and information given by the DMRC/NMRC or its employees or its Representatives shall not be in any way entertained.

SECTION-II

4. EVALUATION CRITERIA AND INCENTIVE DISBURSEMENT

(i) BID EVALUATION AND ACHIEVEMENT LINKED INCENTIVE DISBURSEMENT

i.1. BID EVALUATION

The evaluation process comprises the following four steps:

Step I	Responsiveness check of Techno Commercial Bid
Step II	Evaluation of Bidder’s fulfillment of Eligibility Criteria as per Clause 3.4 of Section-I
Step III	Evaluation of Price Bid
Step IV	Successful Bidders(s) selection

i.2. RESPONSIVENESS CHECK OF TECHNO COMMERCIAL BID

The Techno Commercial Bid submitted by Bidders shall be scrutinized to establish responsiveness to the requirements laid down in the RFS subject to Clause 3.4.1, Clause 3.4.2, and Clause 3.4.3. Any of the following may cause the bid to be considered “**Non-responsive**”, at the sole discretion of DMRC/NMRC.

- i. Bids that are incomplete, i.e. not accompanied by any of the applicable formats inter alia covering letter, power of attorney supported by a board resolution, applicable undertakings, format for disclosure, valid Bid Bond, etc.;
- ii. Bid not signed by authorized signatory and /or stamped in the manner indicated in this RFS;
- iii. Material inconsistencies in the information /documents submitted by the Bidder, affecting the Eligibility Criteria;
- iv. Information not submitted in the formats specified in this RFS;
- v. Bid being conditional in nature;
- vi. Bid not received by the Bid Deadline;
- vii. Bid having Conflict of Interest;
- viii. More than one Member of a Bidding Company using the credentials of the same Parent Company /Affiliate;
- ix. Bidder delaying in submission of additional information or clarifications sought by DMRC as applicable;
- x. Bidder makes any misrepresentation.

Each Bid shall be checked for compliance with the submission requirements set forth in this RFS before the evaluation of Bidder’s fulfilment of Eligibility Criteria is taken up. Clause 3.4 shall be used to check whether each Bidder meets the stipulated requirement. In case of any non-conformity, the tender shall be disqualified and rejected.

5. PRELIMINARY EXAMINATION

- 5.1. The DMRC will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and stamped and whether the Bids are otherwise in order.
- 5.2 Tenders determined to be technically acceptable after technical evaluation will be checked by the Employer for any arithmetical errors in computation and summation during financial evaluation. Errors will be corrected by the Employer as follows:
- a. Where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and
 - b. Where there is a discrepancy between the unit price and the total amount derived from the multiplication of the unit price and the quantity, the unit price as quoted will normally govern unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit price, in which event, the total amount as quoted will govern.
- 5.3 If a Bidder does not accept the correction of errors as outlined above, his tender will be rejected and the tender security forfeited.

6. EVALUATION OF BIDDER'S FULFILMENT OF ELIGIBILITY CRITERIA

6.1 EVALUATION OF ELIGIBILITY:

- a. Evaluation of Bidder's Eligibility will be carried out based on the information furnished by the Bidder as per the prescribed Formats and related documentary evidence in support of meeting the Eligibility Criteria as specified in Clause 3.4. Non-availability of information and related documentary evidence for the satisfaction of Eligibility Criteria may cause the Bid to be non-responsive.
- b. Tenders not considered substantially responsive and not full-filling the requirements of the tender document as evaluated as per item clause 4 and clause 5 shall be rejected by Employer and shall not be allowed subsequently to be made responsive by correction or withdrawal of the nonconforming deviation or reservation.
- c. If any tender is rejected, pursuant to paragraph (b) above, the Financial Package of such bidder shall not be opened.
- d. The decision of the Employer as to which of the tenders are not substantially responsive shall be final.

6.2 EVALUATION OF PRICE BID

- a. All technically acceptable tenders will be eligible for opening of their financial proposals. The Employer shall notify all technically qualified Biddersto attend the opening of the financial proposal. The financial proposal will then be opened in front of attending Bidders.

- b. The financial bids of the bidders shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the Tender Price(s), including any discounts and any other details as the Employer may consider appropriate.
Only Financial Package discounts read out and recorded during the opening of Price Tenders shall be considered for evaluation. No Tender shall be rejected at the opening of Price Tenders.
- c. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.
- d. The evaluation of Financial proposals by the Employer will take into account, in addition to the tender amounts, the following factors:
 - i) Arithmetical errors corrected by the Employer
 - ii) Such other factors of administrative nature as the Employer may consider having potentially significant impact on contract execution, price and payments, including the effect of items or unit rates that are unbalanced or unrealistically priced.
- e. Offers, deviations and other factors, which are in excess of the requirements of the tender documents or otherwise will result in the accrual of unsolicited benefits to the Employer, shall not be taken into account in tender evaluation.
- f. Price adjustment provisions applicable during the period of execution of the contract shall not be taken into account in tender evaluation.
- g. Evaluation of financial offer will be based on rates quoted in BOQ. Any alteration in BOQ will not be given any cognizance.

6.2.1 Not Used.

6.2.2 **RESCO MODEL**

- a. The Price bids shall be evaluated separately.
- b. Since the maximum allowable Levellised tariff is **Rs3.91/kWh**, so bids above the maximum allowable price shall be rejected.

6.3 SUCCESSFUL BIDDER(S) SELECTION

6.3.1 Bids qualifying in Clause 3.4 shall only be evaluated in this stage.

6.3.2 Not used.

6.3.3 The Levellised Tariff requirement quoted in FORMAT-C all Price Bids of Qualified Bidders shall be used for evaluation.

6.3.4 Not Used

6.3.5 For Part B

6.3.5.1 Based on the price bid quoted by the bidders, DMRC shall arrange the bids in the ascending order i.e. L1, L2, L3, _ _ _ (L1 being the lowest evaluated

price).

Evaluated price = LevellisedTariff as evaluated in Financial BIDFormat-C.

- 6.3.5.2 The bidder shall quote year wise tariff (Rs. /kWh) in –Financial BID for 25 years.
- 6.3.5.3 Not Used
- 6.3.5.4 Not Used
- 6.3.5.5 The evaluation will be done considering the Tariff quoted by the bidder with achievement-linked incentive of project cost if applicable as per tender conditions clause 6.8& 14.1.
- 6.3.5.6 Not Used
- 6.3.5.7 Not Used.
- 6.3.5.8 Not Used.
- 6.3.6 The Letter(s) of Allocation (LOA) shall be issued to such Successful Bidders(s) selected as per the provisions of this Clause 6.3.5.
- 6.3.7 Successful Bidder shall unconditionally accept the LOA, and record on one (1) copy of the LOA, “Accepted Unconditionally”, under the signature of the authorized signatory of the Successful Bidder and return such copy to the DMRC within Seven(7) days of issue ofLOA.
- 6.3.8 If the Successful Bidder, to whom the Letter of Allocation has been issued, does not fulfill any of the conditions specified in Bid document, the DMRC reserves the right to annul/cancel the award of the Letter of Allocation of such Successful Bidder and forfeit the Bid Bond / Performance security.
- 6.3.9 The DMRC at its own discretion, has the right to reject any or all the Bids without assigning any reason whatsoever, at its sole discretion.
- 6.3.10 There shall be no negotiation on the quoted Project cost or achievement-linked incentive between the DMRC and the Bidder(s), during the process of evaluation.

6.4 INCREASE/DECREASE OF BIDDER ALLOCATED CAPACITY

- 6.4.1 DMRC/NMRC reserves the right to increase/decrease the Bidder Allocated Capacity by up to twenty five percent (25%) for each station/siteor any other site at the sole discretion of DMRC/NMRC.
- 6.4.2 Not Used.
- 6.4.3 In case capacity is enhanced by DMRC/NMRC as per Clause 6.4.1 above, Successful bidder shall submit the equivalent amount of PBG to DMRC/NMRC within 30 days from the date of issue of allocation letter /sanction letter.

6.5 Not Used.

6.6 NOTIFICATION TO SUCCESSFUL BIDDERS

- 6.6.1 Prior to the expiry of the period of tender validity prescribed by the Employer, the Employer will notify the successful Bidderby telegram or Tele-fax, to be confirmed in writing by registered letter, that his tender has been accepted.

This letter (hereinafter and in the Conditions of Contract called 'the Letter of Acceptance') shall name the sum which the Employer will pay to the Contractor in consideration of the execution, completion, maintenance and guarantee of the works by the Contractor as prescribed by the Contract (hereinafter and in the conditions of Contract called 'the Contract Price'). The "Letter of Acceptance" will be issued under signature of a Director of DMRC or of the Chief General Manager/Contracts. The "Letter of acceptance" will be sent in duplicate to the successful Bidder, who will return one copy to the Employer duly acknowledged and signed by the authorized signatory, within one week of receipt of the same by him. No correspondence will be entertained by the Employer from the unsuccessful Bidders.

Single letter of Acceptance for the complete tender capacity of 10 MWp will be issued to the successful bidder. However site wise capacity allocation will be done by Engineer-in-charge.

Allocation letter for capacity of 10000 kWp or part thereof will be issued by Engineer-in-charge and on submission of performance BG (PBG) corresponding to 10000 kWp, Power Purchase Agreement (PPA) will be signed between NMRC and Power Producer for this capacity.

- 6.6.2 The Letter of Acceptance will constitute a part of the contract.
- 6.6.3 Upon "Letter of acceptance" being signed and returned by the successful Bidders per Clause 6.6.1, the employer will promptly notify the unsuccessful Bidders and discharge / return their tender securities.

6.7 PROJECT ALLOCATION AND SANCTION

- 6.7.1 The Bidders, in their own interest are advised to make a preliminary survey of the sites specified in this tender as well as issue of Grid connectivity, as non-availability of roof tops and non-completion of other formalities after allocation of project will result in forfeiture of Bid Bond/PBG amount submitted by them.
- 6.7.2 The Successful Bidders selected as described in Clause 6.3 above shall be issued Letter of Allocation (LOA) indicating the allocated capacity & Project Cost etc.
- 6.7.3 The time for submission of project sanction documents and design documents by the bidder to DMRC/NMRC will be 60 days from the date of issue of allocation letter which can be extended depending upon the merit of the case. Failure of non-compliance of same shall lead to forfeiture of PBG.
 - 6.7.3.1 Further, Successful Bidders can start submitting their Project sanction documents as soon as they receive LOA from DMRC. Project sanction documents shall be submitted to DMRC. If within 3 months, the successful bidder does not submit Project sanction documents and design documents, in such case PBG shall be forfeited and the allocated capacity gets cancelled and bidder including its affiliates/GROUP COMPANIES/ Parent / Ultimate parent company may be debarred to participate in DMRC future tenders for a period as decided by the competent authority of DMRC.
 - 6.7.3.2 Not Used.

- 6.7.4 Not Used.
- 6.7.5 Not Used.
- 6.7.6 Not Used.
- 6.7.7 DMRC will issue the Letter of Acceptance(s) for the Project (s) indicating the achievement-linked incentives. Afterwards the Successful Bidder/ Project Developer and accepted by DMRC shall submit the Project and Design Documents.
- 6.7.8** If the Bidder fails to commission the sanctioned project within specified time, Liquidated damages (LD) on per day basis calculated for the Performance Security as per **Clause 8 of RFS**.

6.8. ACHIEVEMENT LINKED INCENTIVE DISBURSEMENT

- 6.8.1. In this part, the request for Achievement linked incentive has been sent to MNRE vide letter no. NMRC/MD/F.No. 100/2018/1504 dated 04.01.2018 and is awaiting sanction.

In this part, in line with MNRE guidelines No 30/11/2012-13/NSM dated 17th March 2017, achievement linked incentive of as per bench mark Project cost quoted by bidder in Price Bid/Actual project cost subject to a maximum as per details below will be released, for installation of grid connected rooftop projects at various locations as mentioned in section VII, is likely to be made available to the Successful Bidder.

Type	Category	Benchmark cost
Grid connected roof top solar PV system (Rs/Wp)	Upto 10 kWp	70
	>10-100 kWp	65
	>100-500 kWp	60

- 6.8.2. Total liability of NMRC under this contract shall be limited to release of this achievement linked incentive on the cost offered by the Bidder in the Price Bid or actual project cost or as per clause 6.8.1 & 3.30 whichever is lower.
- 6.8.3. NOT USED
- 6.8.4. The Achievement linked Incentive will be disbursed as follows:
- a) Incentive would be released after commissioning of the project and submission of PCRs in SPIN portal at the end of sanction period and submission of original audited Statement of Expenditure (SOE). NMRC / Delhi Metro Rail Corporation Ltd. will also make the sites/premises available for inspection by MNRE or its designated team/agency. Minimum 40% of the sanctioned capacity has to be installed to avail incentives. No

extension shall be given beyond time line specified by the sanction/ LOA.

- b) 66% of incentive subject to maximum as per details of clause 6.8.1 & 3.30 will be released after Commissioning and acceptance of project, i.e after the issuance of commissioning/completion certificate as per Clause 12.1.1 and on receipt of incentive from MNRE.
- c) 17% of the Achievement linked incentive will be released at the end of 1 year of O&M period from date of commissioning and on receipt of incentive from MNRE.
- d) Remaining 17% of the incentive will be released at the end of 2 years of O&M period from date of commissioning and on receipt of incentive from MNRE

If any extra facilities are agreed between the Successful Bidder and the NMRC beyond the scope of this award letter than extra payment shall be made by the NMRC on mutually decided (NMRC& Successful Bidder) terms and conditions.

- 6.8.5. NMRC may consider to release as case to case basis depending on the actions taken by the Successful Bidder and the progress achieved in the process, the Achievement-linked incentive amount indicated at Clause 6.8.4 (a) above in case Grid connectivity of the Project has not been done although the Project is otherwise ready for the commissioning. However, the last part of incentive as indicated in Clause 6.8.4 (c) and Clause 6.8.4 (d) above shall not be released till the project is connected with the Grid.

7. **OTHER CONDITIONS**

- 7.1. Bidder has to obtain all the necessary approvals/Consents/Clearances required for Erection, Testing, Commissioning and O&M of the project including Grid connectivity. DMRC/NMRC shall assist in this regard.

- 7.2. Bid bond and Processing fee submission:

Bid bond shall be submitted in a separate envelop (along with Processing fee) superscripted with name of sites for which Bid is being quoted & other details.

7.3. **TAX EXEMPTIONS**

Price bids are invited inclusive of Taxes and duties. However, Tax exemptions including certificates of any sort, if available may be dealt with the concerned Dep't of Govt. of India by the bidder. DMRC/NMRC in no case will be responsible for providing any tax exemptions to the bidder.

7.4. **Eligibility of standalone system:**

- 7.4.1 Standalone system is not allowed under this scheme. The system should be grid interactive.

7.5. **Requirement of approvals on makes of the Components:**

- 7.5.1. The modules should be manufactured in India only for availing achievement-

linked incentive as per clause 14.1.1. Rest of the components can be procured from any source. However these items should meet the Technical specification and standards mentioned in RFS.

7.6. OPERATION OF THE SYSTEM DURING GRID FAILURE AND CALCULATION OF CUF

7.6.1. During grid failure, the SPV system stops generating. Any instances of grid failure need to be mentioned in the monthly report and those instances need to be authorized by NMRC. Then the period will be excluded in calculation of CUF.

7.7. Not Used.

8. LIQUIDATED DAMAGES(LD) FOR DELAY IN PROJECT IMPLEMENTATION

8.1. DMRC will issue the Letter of Acceptance (LOA) for the Project (s) indicating the achievement-linked incentive which will be disbursed in line with the provisions of the RFS document. The Bidder shall complete the design, engineering, manufacture, supply, storage, civil work, erection, testing & commissioning of each project within 12 months from the date of issue of LOA.

If the bidder fails to commission the sanctioned project within specified time, Liquidated Damages (LD) on per day basis calculated for the Performance Security on a 6 months period would be levied. After 6 months the project will get cancelled and the total PBG amount would be forfeited.

Ex: If project is delayed by 36 days then the Liquidated Damages (LD) will be levied as given below.

Liquidated Damages (LD) = [(Performance Security)/365days*delayed days.

8.2. Failure or delay by the Employer or the Engineer, to hand over to the Contractor the Site necessary for execution of Works, or any part of the Works, is the responsibility of the Employer, shall in no way affect or vitiate the Contract or alter the character thereof; or entitle the Contractor to damages or compensation thereof but in any such case, the Engineer shall extend the time period for the completion of the Contract, as in his opinion is / are reasonable.

The Contractor may apply for an extension of the Time for Completion if the Work is or will be delayed either before or after the Time for Completion by any of the following causes:

a. "Force Majeure"

b. The Contractor's work held up for not being given possession of or access to the Site for a considerable period.

- c. Instruction of the Engineer to suspend the Works and the Contractor not being in default as to reasons of suspension.
 - d. Acts or omissions of other Designated Contractors in executing work not forming part of this Contract and on whose performance, the performance of the Contractor necessarily depends.
 - g. Any other event or occurrence which, according to the Employer is not due to the Contractor's failure or fault, and is beyond his control without Employer being responsible for the same.
- 8.3. However, the Contractor shall not be entitled to any Extension of Time where the instructions or acts of the Employer or the Engineer are necessitated by or intended to cure any default of or breach of Contract by the Contractor or where any delay is due to
- a. The failure of sub-contractor, to commence or to carry out work in due time,
 - b. Non-availability, or shortage of Contractor's equipment, labour, utility services, Plant and Materials,
 - c. Inclement weather conditions, and
 - d. The Contractor not fulfilling his obligations
- 8.4. If the Contractor considers himself to be entitled to an extension of time for Completion, he shall give notice to the Engineer, of such intention as soon as possible, he shall notice the event giving rise to the delay and full and final supporting details of his application, together with any notice required by the Contract and relevant to such Clause.
- The Engineer shall proceed in accordance with clause 8, to agree or determine either prospectively or retrospectively such extension of the Time for Completion as may be due. The Engineer shall notify the Contractor accordingly.
- The Contractor shall not be entitled to an extension of time by reason of any delay to any activity in the carrying out of the Works unless in the opinion of the Engineer such delay results in or may be expected to result in a delay to completion of the Works, or achievement of completion of sanctioned capacity.
- If the delay in the completion of the whole Works or a portion of the Works, for which an earlier completion period is stipulated, is due to the Contractor's failure or fault, and the Engineer is of the view that the remaining Works or the portions of Works can be completed by the Contractor in a reasonable and acceptable short time, then, the Engineer may allow the Contractor extension or further extension of time at its discretion with or without liquidated damages, for completion, as he may decide

9. TIME OF COMPLETION OF SANCTIONED CAPACITY

- 9.1 DMRC will issue the LOA(s) for the Project(s) indicating the achievement-linked incentive amount (s) which will be disbursed in line with the provisions of the RFS document (Refer Clause 6.8). The Bidder shall complete the design, engineering, manufacture, supply, storage, civil work, erection of suitable raised structure, testing & commissioning of sanctioned project(s) within 12 months from the date of issue of LOA(s). In case of delay beyond scheduled commissioning period, the bidder shall be liable for Liquidated Damages (LD) as per Clause 8.
- 9.1.1. The period of construction given in Time Schedule includes the time required for mobilization as well as testing, rectifications if any, retesting and completion in all respects to the entire satisfaction of the Engineer-in-Charge.
- 9.1.2. A joint programme of execution of the Work will be prepared by the Engineer-in-Charge or its representative nominated for the purpose and Successful bidders based on priority requirement of this project. This programme will take into account the time of completion mentioned in clause 9.1 above and the time allowed for the priority Works by the Engineer-in-Charge.
- 9.1.3. Monthly/Weekly implementation programme will be drawn up by the Engineer-in-Charge jointly with the Successful bidder, based on availability of Work fronts as per Clause 9.1.2 above. Successful bidder shall scrupulously adhere to these targets/programmes by deploying adequate personnel, tools and tackles and he shall also supply himself all materials of his scope of supply in good time to achieve the targets/programmes. In all matters concerning the extent of targets set out in the weekly and monthly programmes and the degree of achievements, the decision of the Engineer-in-Charge will be final and binding.

10. THE PROJECT PROGRESS ON BI-WEEKLY BASIS

Successful bidder authorized representative in whose name PoA has been executed and submitted along with the bid shall submit to DMRC/NMRC the project progress report on biweekly basis (Every 15 days), non submission of the progress report shall be considered as no progress and shall attract punitive actions as per the relevant provision of the Contract. However, the decision of Engineer –in – charge shall be final in this regard.

11. INSPECTION AND AUDIT BY THE DMRC/NMRC

- 11.1. The Successful bidder shall permit the DMRC/NMRC or their authorized agency to inspect the Successful bidder's site, accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the DMRC/NMRC, if so required by the DMRC/NMRC any time.

12. COMMISSIONING /COMPLETION CERTIFICATE

- 12.1. Application for completion/commissioning certificate:
When the Successful bidder fulfils his obligation under the Contract, he shall

be eligible to apply for Completion Certificate. The Engineer-in-Charge shall normally issue to the Successful bidder the Completion Certificate within one month after receiving any application from the Successful bidder after verifying from the completion documents and satisfying himself that the Work has been completed in accordance with and as set out in Contract documents. The Successful bidder, after obtaining the Completion Certificate, is eligible to avail the achievement linked incentive as per the Clause 6.8.

12.1.1 **DOCUMENT SUBMISSION FOR ISSUE OF COMMISSIONING/COMPLETION CERTIFICATE**

For the purpose of Clause 12.1 above the following documents will be deemed to form the completion documents:

- a. Checklist for inspection of Roof top SPV power plants as per DMRC format.
- b. Project completion report from successful bidder as per DMRC format.
- c. Format attached in Section-V Format-11.

12.1.2 **FINAL DECISION AND FINAL CERTIFICATE**

12.1.2.1 Upon completion of 2 years of O&M and subject to the Engineer-in-Charge being satisfied, the Engineer-in-Charge shall (without prejudice to the rights of the DMRC/NMRC to retain the provisions of relevant Clause hereof) otherwise give a certificate herein referred to as the Final Certificate to that effect and the Successful bidder shall not be considered to have fulfilled the whole of his obligations under Contract until Final Certificate shall have been given by the Engineer-in-Charge notwithstanding any previous entry upon the Work and taking possession, working or using of the same or any part thereof by the DMRC/NMRC.

12.2. **DEDUCTIONS**

12.2.1 All costs, damages or expenses which DMRC/NMRC may have paid or incurred, which under the provisions of the Contract, the Successful bidder is liable/will be liable, will be claimed by the DMRC/NMRC. All such claims shall be billed by the DMRC or NMRC to the bidder and if not paid by the Successful bidder within the 15 days within respect of payment request period, the DMRC/NMRC may, then, deduct the amount from any money due i.e., Performance Security or becoming due to the contractor or Successful bidder under the contract or may be recovered by actions of law or otherwise, if the Successful bidder fails to satisfy the DMRC/NMRC of such claims.

12.3. **CORRUPT OR FRAUDULENT PRACTICES**

The DMRC requires that Successful Bidders/ Contractors should follow the highest standard of ethics during the execution of contract. In pursuance of this policy, the DMRC -

12.3.1 Defines, for the purposes of this provision, the terms set forth as follows:

12.3.2 **“Corrupt Practice”** means the offering, giving, receiving or soliciting of

anything of value to influence the action of a public official in the bid process or in contract execution and

- 12.3.3 **“Fraudulent Practice”** means a misrepresentation of facts in order to influence a bid process or the execution of a contract to the detriment of the DMRC/Govt. scheme, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the DMRC of the benefits of free and open competition.
- 12.3.4 Will declare a firm ineligible/debarred, either indefinitely or for a specific period of time, a Govt.contract if at any time it is found that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government/ DMRC schemes.

13. DEBARRED FROM PARTICIPATING IN DMRC/NMRC’S ROOF TOP TENDER

- 13.1. DMRC/NMRC reserves the right to carry out the performance review of each Bidder from the time of submission of Bid onwards. In case it is observed that a bidder has not fulfilled its obligations in meeting the various timelines envisaged, in addition to the other provisions of the RFS, such Bidders may be debarred from participating in DMRC/NMRC’s any future tender for a period as decided by the competent authority of DMRC/NMRC.
- 13.2. The Successful bidder must ensure that the achievement-linked incentive is available for newly commissioned plants i.e. for the plants whose construction/dispatch of equipment’s have been started only after the issue of sanction letter/allocation letter. Any project on which plants have been installed or commissioned before the issue of allocation letter/sanction letter shall be construed as fraudulent activity in which case Successful bidder(s) may be debarred from participating in DMRC/NMRC’s future tender for a period as decided by the competent authority. However, such locations may be used for installation of additional capacity with the prior approval of competent authority.

SECTION-III

TECHNICAL SPECIFICATIONS

The proposed project shall be commissioned as per the technical specifications given below. Any shortcomings will lead to cancellation of achievement-linked incentive in full or part as decided by DMRC & Competent Authority's decision will be final and binding on the bidder.

14. DEFINITION

A Grid Tied Solar Rooftop Photo Voltaic (SPV) power plant consists of SPV array, Module Mounting Structure, Power Conditioning Unit (PCU) consisting of Maximum Power Point Tracker (MPPT), Inverter, and Controls & Protections, interconnect cables and switches. PV Array is mounted on a suitable structure. Grid tied SPV system is without battery and should be designed with necessary features to supplement the grid power during day time. Components and parts used in the SPV power plants including the PV modules, metallic structures, cables, junction box, switches, PCUs etc., should conform to the BIS or IEC or international specifications, as specified herein or otherwise wherever such specifications are available and applicable.

Rooftop Solar PV system shall consist of following equipments/components.

- Solar PV modules consisting of required number of crystalline PV modules
- Grid interactive Power Conditioning Unit with Remote Monitoring System
- Mounting structures
- Junction Boxes.
- Earthing and lightning protections
- IR/UV protected FRLS/FRLSOH (for underground)Cables, pipes and accessories
- Metering & associated equipment

14.1 SOLAR PHOTOVOLTAIC MODULES

14.1.1. The PV modules used should be PID (Potential Induced Degradation) resistant and tested for PID as per IEC 62804.

- ❖ The PV modules used should be made in India for availing achievement-linked incentive as per clause 6.8.
- ❖ The PV modules of foreign make can be used, but in such case the developer will not be eligible for achievement linked incentive provided as per clause 6.8.
- ❖ Irrespective of the fact whether the achievement linked incentive is availed or not the developer must satisfy the Plant Performance as per the clause 3.27.

14.1.2. The PV modules used must qualify to the latest edition of IEC PV module qualification test or equivalent BIS standards Crystalline Silicon Solar Cell

Modules IEC 61215/IS14286. In addition, the modules must conform to IEC 61730 Part-1- requirements for construction & Part 2 – requirements for testing, for safety qualification or equivalent IS.

- a. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701
 - b. The total solar PV array capacity should not be less than allocated capacity (kWp) and should comprise of solar crystalline modules of minimum 300 Wp and above wattage. Module capacity less than minimum 300 watts shall not be accepted.
 - c. Protective devices against surges at the PV module shall be provided. Low voltage drop bypass diodes shall be provided.
 - d. PV modules must be tested and approved by one of the IEC authorized test centers.
 - e. The module frame shall be made of corrosion resistant materials, preferably having anodized aluminum.
 - f. The bidder shall carefully design & accommodate requisite numbers of the modules to achieve the rated power in his bid. DMRC/NMRC shall allow only minor changes at the time of execution.
 - g. Other general requirement for the PV modules and subsystems shall be the Following:
 - i. The rated output power of any supplied module shall have tolerance of +/- 3%.
 - ii. The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2 (two) per cent from the respective arithmetic means for all modules and/or for all module strings, as the case may be.
 - iii. The module shall be provided with a junction box with either provision of external screw terminal connection or sealed type and with arrangement for provision of by-pass diode. The box shall have hinged, weather proof lid with captive screws and cable gland entry points or may be of sealed type and IP-65 rated.
 - iv. I-V (Current – Voltage) curves at STC (standard test conditions) should be provided by bidder.
- 14.1.3. Modules deployed must use a RF (Radio frequency) 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).
- a) Name of the manufacturer of the PV module
 - b) Name of the manufacturer of Solar Cells.
 - c) Month & year of the manufacture (separate for solar cells and modules)
 - d) Country of origin (separately for solar cells and module)

- e) I-V curve for the module Wattage, I_{max} , V_{max} and FF (Fill Factor) for the module
- f) Unique Serial No and Model No of the module
- g) Date and year of obtaining IEC PV module qualification certificate.
- h) Name of the test lab issuing IEC certificate.
- i) Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001

14.1.4. **Warranties**

a) Material Warranty

- i. Material Warranty is defined as: The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of sale to the original customer ("Customer")
- ii. Defects and/or failures due to manufacturing,
- iii. Defects and/or failures due to quality of materials,
- iv. Non conformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners sole option,

b) Performance Warranty

- i. The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the 25 year period and not more than 10% after first ten years period of the full rated original output.

15. **ARRAY STRUCTURE**

- a) Hot dip galvanized MS (with 1000 gm/m²zinc mass coating) or Aluminum mounting structures may be used for mounting the modules/ panels/arrays. Each structure should have angle of inclination as per the site conditions to take maximum irradiation. However to accommodate more capacity the angle inclination may be reduced until the plant meets the specified performance ratio requirements.
- b) The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed (like Noida-wind speed of 170km/hour). It may be ensured that the design has been certified by a recognized Lab/ Institution in this regard and submit wind loading calculation sheet to DMRC/NMRC in compliance to standards governing, as on date like IS-875, NBC etc. Suitable fastening arrangement such as grouting and clamping should be provided to secure the installation against the specific wind speed.

- c) The mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in compliance of latest IS 4759.
- d) Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. Aluminum structures also can be used which can withstand the wind speed of respective wind zone. Necessary protection towards rusting need to be provided either by coating or iodization.
- e) The fasteners used should be made up of stainless steel. The structures shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Installation of solar structure should not damage the roof in any way. If any concrete or foundation is required, it should be pre-cast type.
- f) Regarding civil structures the bidder need to take care of the load bearing capacity of the roof and need arrange suitable structures based on the quality of roof.
- g) The total load of the structure (when installed with PV modules) on the terrace should be less than 60 kg/m².
- h) For Safety:-
 - 1. Safety ropes shall be provided on shed type structures
 - 2. Life Line
 - 3. Ladder caged/stairs case, where space is available stair case shall be provided else caged ladder where space is not there.
 - 4. Anti-fall edge protection.
 - 5. Walkway

16. JUNCTION BOXES (JBs)

- a) The junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of GRP/FRP/Powder Coated Aluminum /cast aluminum alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JBs shall be such that input & output termination can be made through suitable cable glands.
- b) Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry with single compression cable glands, provision of earthlings. It should be placed at 5 feet height or above for ease of accessibility.
- c) Each Junction Box shall have High quality Suitable capacity Metal Oxide Varistors (MOVs) / surge arrestors, suitable Reverse Blocking Diodes. The Junction Boxes shall have suitable arrangement monitoring and disconnection

for each of the groups.

- d) Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification.

17. NOT USED

- a) Not Used

18. AC DISTRIBUTION PANEL BOARD

- a) AC Distribution Panel Board (ACDB) shall control the AC power from PCU/ inverter, and should have necessary surge arrestors. Interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- b) All switches and the circuit breakers, connectors should conform to IEC 60947, part I, II and III/ IS60947 part I, II and III.
- c) The change over switches, cabling work should be undertaken by the bidder as part of the project.
- d) All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air - insulated, cubical type suitable for operation on three phase / single phase, 415 or 230 volts, 50 Hz
- e) The panels shall be designed for minimum expected ambient temperature of 50degree Celsius, 80 percent humidity and dusty weather.
- f) All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better.
- g) Cable alley design needs to be compatible to allow easy access depending upon the number of AC Cables into the panel. Minimum width of cable alley shall be 300 mm. Location of bus bars should be such so as to avoid any overlapping/looping of cables in the panels.
- h) Connections of cable with the bus bars should be properly tightened& check nuts must be provided to avoid any possibility of loosening of connections.
- i) Bare/exposed portion of terminal/cables should be covered with appropriate sleeves instead of wrapping insulating tape.
- j) Should conform to Indian Electricity Act and rules (till last amendment).
- k) All the 415 Volt AC or 230 volts devices / equipment like bus support insulators, circuit breakers, VTs etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions

Variation in supply voltage	+/- 10 %
Variation in supply frequency	+/- 3 Hz

19. PCU/ARRAY SIZE RATIO:

- a) The combined wattage of all inverters should not be less than rated capacity of power plant under STC (Standard test conditions).
- b) Maximum power point tracker shall be integrated in the PCU/inverter to maximize energy drawn from the array.

20. PCU/ INVERTER:

As SPV array produce direct current electricity, it is necessary to convert this direct current into alternating current and adjust the voltage levels to match the grid voltage. Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the system are termed the “Power Conditioning Unit (PCU)”. In addition, the PCU shall also house MPPT (Maximum Power Point Tracker), an interface between Solar PV array & the Inverter, to the power conditioning unit/inverter. If necessary inverter output should be compatible with the grid frequency. Typical technical features of the inverter shall be as follows:

- | | |
|---|---|
| ➤ Switching devices | : IGBT/MOSFET |
| ➤ Control
Signal Processor) | : Microprocessor / DSP (Digital |
| ➤ Nominal AC output voltage and frequency | : 415V, 3 Phase, 50 Hz |
| ➤ Output frequency | : 50 Hz |
| ➤ Grid Frequency Synchronization range | : + 3 Hz or more |
| ➤ Ambient temperature considered | : -20 ^o C to 50 ^o C |
| ➤ Humidity | : 95 % Non-condensing |
| ➤ Protection of Enclosure | : IP-20(Minimum) for indoor.
IP-65(Minimum) for outdoor. |
| ➤ Grid Frequency Tolerance range | : + 3 Hz or more |
| ➤ Grid Voltage tolerance | : - 20% & + 15 % |
| ➤ No-load losses | : Less than 1% of rated power |
| ➤ Inverter efficiency(minimum)
or above) | : >93% (In case of 5kW |
| Inverter efficiency (minimum)
5kW) | : > 90% (In case of less than |
| ➤ THD | : < 3% |
| ➤ PF | : > 0.9 |

- a) Three phase PCU/ inverter shall be used with each power plant system (10kW or above) but In case of less than 10 kW single phase inverter /Three phase PCU/ inverter can be used.
- b) PCU/inverter shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- c) The output of power factor of PCU inverter is suitable for all voltage ranges or

- sink of reactive power; inverter should have internal protection arrangement against any sustainable fault in feeder line and against the lightning on feeder.
- d) Built-in meter and data logger to monitor plant performance through external computer shall be provided.
 - e) The power conditioning units / inverters should comply with applicable IEC/ equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683 and IEC 60068- 2(1,2,14,30) /Equivalent BIS Std.
 - f) The charge controller/ MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS standard. The junction boxes/ enclosures should be IP 65(for outdoor)/ IP 54 (indoor) and as per IEC 529 specifications.
 - g) The PCU/ inverters should be tested from the MNRE approved test centres / NABL /BIS /IEC accredited testing- calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses.

21. **INTEGRATION OF PV POWER WITH GRID:**

The output power from SPV would be fed to the inverters which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization and availing net metering connection from Discom. In case of grid failure, or low or high voltage, solar PV system shall be out of synchronization and shall be disconnected from the grid. Once the DG set comes into service PV system shall again be synchronized with DG supply and load requirement would be met to the extent of availability of power. 4 pole isolation of inverter output with respect to the grid/ DG power connection need to be provided.

22. **DATA ACQUISITION SYSTEM / PLANT MONITORING**

A. **Data Acquisition System**

- i. Data Acquisition System shall be provided for each of the solar PV plant.
- ii. Data Logging Provision for plant control and monitoring, time and date stamped system data logs for analysis with the high quality, suitable PC. Metering and Instrumentation for display of systems parameters and status indication to be provided.
- iii. **Solar Irradiance:** An integrating Pyranometer (Class II or better, along with calibration certificate) provided, with the sensor mounted in the plane of the array readout integrated with data logging system. It should be able to read real time value of irradiance.
- iv. **Temperature:** Temperature probes for recording the Solar panel temperature and ambient temperature to be provided complete with readouts integrated with the data logging system
- v. **Wind:** Wind sensors for recording wind speed to be provided at one of the sites.

All the above sensors shall be installed at four locations as specified by DMRC.

- vi. The following parameters are accessible via the operating interface display in real time separately for solar power plant:
 - a. AC Voltage.
 - b. AC Output current.
 - c. Output Power
 - d. Power factor.
 - e. DC Input Voltage.
 - f. DC Input Current.
 - g. Time Active.
 - h. Time disabled.
 - i. Time Idle.
 - j. Power produced
 - k. Protective function limits (viz. AC Over voltage, AC Under voltage, over frequency, under frequency, ground fault, PV starting voltage, PV stopping voltage, over current, short circuit etc.
- vii. All major parameters available on the digital bus and logging facility for energy auditing through the internal microprocessor and read on the digital front panel at any time) and logging facility (the current values, previous values for up to a month and the average values) should be made available for energy auditing through the internal microprocessor and should be read on the digital front panel.
- viii. PV array energy production: Digital Energy Meters to log the actual value of AC / DC voltage, Current & Energy generated by the PV system provided. Energy meter should be of 0.5s accuracy class with CT / PT should be of 0.2s accuracy class.
- ix. Computerized DC String/Array monitoring and AC output monitoring shall be provided as part of the inverter and/or string/array combiner box or separately.
- x. String and array DC Voltage, Current and Power, Inverter AC output voltage and current (All 3 phases and lines), AC power (Active, Reactive and Apparent), Power Factor and AC energy (All 3 phases and cumulative) and frequency shall be monitored.
- xi. The time interval between two sets of data shall not be more than 15 minutes.
(A min. of 4 samples of data shall be recorded per hour)
- xii. Data Acquisition System shall have real time clock, internal reliable battery backup (2 hours) and data storage capacity to record data round the clock for a period of min. 1 year.
- xiii. Computerized AC energy monitoring shall be in addition to the digital AC energy meter.

- xiv. The data shall be recorded in a common work sheet chronologically date wise. The data file shall be MS Excel compatible. The data shall be represented in both tabular and graphical form.
- xv. All instantaneous data shall be shown on the laptop screen. Two laptops with latest configuration for this purpose shall be provided by the developer to DMRC.
- xvi. Software shall be provided for USB download and analysis of DC and AC parametric data for individual plant.
- xvii. Provision for Internet monitoring and download of data shall be also incorporated.
- xviii. Remote Server and Software for centralized Internet monitoring system shall be also provided for download and analysis of cumulative data of all the plants and the data of the solar radiation and environment monitoring system in the central location.

B. Solar Radiation and Environment Monitoring System.

- xix. Computerized solar radiation and environment monitoring system shall be installed on one of the buildings along with the solar PV power plant.
- xx. The system shall consist of various sensors, signal conditioning, data acquisition, LCD display and remote monitoring.
- xxi. Global and diffuse beam solar radiation in the plane of array (POA) shall be monitored on continuous basis. Global Horizontal Irradiation at the collector panel is required to be measured.
- xxii. Solar PV module back surface temperature shall be also monitored on continuous basis.
- xxiii. Simultaneous monitoring of DC and AC electrical voltage, current, power, energy and other data of the plant for correlation with solar and environment data shall be provided.
- xxiv. Solar radiation and environment monitoring system shall have real time clock, internal reliable battery backup and data storage capacity to record data round the clock for a period of min. 1 year.
- xxv. The data shall be recorded in a common work sheet chronologically date wise. The data file should be MS Excel compatible. The data shall be represented in both tabular and graphical form.
- xxvi. All instantaneous data shall be shown on the computer screen.
- xxvii. Historical data shall be available for USB download and analysis.
- xxviii. Provision for Internet monitoring and download of data shall be incorporated.
- xxix. Remote Monitoring and data acquisition through Remote Monitoring System software at the DMRC site with latest software/hardware configuration and

service connectivity for online / real time data monitoring/control complete to be supplied and operation and maintenance/control to be ensured by the supplier. Provision for interfacing these data on DMRCcontrolserver and portal in future.

23. METERING

- a) Metering panel shall be installed as near as possible, to the point of evacuation of power to grid.
- b) The bi-directional electronic energy meter (0.5s class) shall be installed for the measurement of import/Export of energy.
- c) An additional bi-directional electronic multifunctional meter (0.5s class), displaying parameter details like energy, power, voltage, current and power factor etc shall be installed in solar ACDB having a spare RS485 port for NMRC use.
Multifunctional meter model shall be prescribed by DMRC as per site requirement.
- d) The bidder must take approval/NOC from the NMRC for the connectivity, technical feasibility, and synchronization of SPV plant with distribution network and submit the same to DMRC and/ or NMRC before commissioning of SPV plant.

24. POWER CONSUMPTION

- a) Regarding the generated power consumption, priority need to be given for internal consumption first and thereafter any excess power can be exported to grid.

25. PROTECTIONS

The system should be provided with all necessary protections like earthing, Lightning, and grid islanding as follows:

25.1. LIGHTNING PROTECTION

- a) The SPV power plants shall be provided with lightning & overvoltage protection. The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors. Lightning protection should be provided as per IEC 62305 standards. The protection against induced high-voltages shall be provided by the use of metal oxide arrestors (MOVs) and suitable earthing such that induced transients find an alternate route to earth.

25.2. SURGE PROTECTION

- a) Internal surge protection shall consist of three MOV type surge-arrestors

connected from +ve and –ve terminals to earth (via Y arrangement)

25.3. EARTHING PROTECTION

- a) Each array structure of the PV yard should be grounded/ earthed properly as per IS: 3043-1987. In addition the lightning arrester/masts should also be earthed inside the array field. Earth Resistance shall be tested in presence of the representative of DMRC as and when required after earthing by calibrated earth tester. PCU, ACDB and DCDB should also be earthed properly.
- b) Earth resistance shall not be more than 5 ohms. It shall be ensured that all the earthing points are bonded together to make them at the same potential.

25.4. GRID ISLANDING:

- a) In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as “islands.”

Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The RooftopPV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.

- b) A manual disconnect 4pole isolation switch beside automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. This switch shall be locked by the utility personnel.

26. CABLES:- Cables of appropriate size to be used in the system shall have the following characteristics:

- i. Shall meet IEC 60227/IS 694, IEC 60502/IS1554 standards
- ii. Temp. Range:-10^oC to +80^oC.
- iii. Voltage rating:-1100V.
- iv. Excellent resistance to heat, cold, water, oil, abrasion, UV radiation
- v. Flexible and Armoured.
- vi. Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop (power loss) of the entire solar system to the minimum. The cables (as per IS) should be insulated with a special grade PVC FRLS compound formulated for outdoor use. FRLSZH cables shall be used in all underground areas.
- vii. Cable Routing/ Marking: All cable/wires are to be routed in a GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable easily identified.
- viii. The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. 25years.

- ix. The ratings given are approximate. Bidder to indicate size and length as per system design requirement. All the cables required for the plant provided by the bidder. Any change in cabling sizes if desired by the bidder/approved after citing appropriate reasons. All cable schedules/layout drawings approved prior to installation.
- x. Multi Strand, Annealed high conductivity copper conductor with XLPE insulation. Overall PVC/XLPE insulation for UV protection Armored cable for underground laying. All cable trays including covers to be provided. All cables conform to latest edition of IEC/ equivalent BIS Standards as specified below. Cables for AC power from inverters to LT Panel of NMRC can be with Aluminium conductor.

PVC/XLPE insulated cables for working Voltage up to and including 1100 V, UV resistant for outdoor installation IS /IEC 69947.
- xi. The size of each type of DC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 2%.
- xii. The size of each type of AC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 2%.

27. CONNECTIVITY

The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the Distribution Code/Supply Code and amended from time to time. Following criteria have been suggested for selection of voltage level in the distribution system for ready reference of the solar suppliers.

Plant Capacity	Connecting voltage
Up to 10 kW	240V-single phase or 415V-three phase at the option of the consumer.
Above 10kW & up to 100 kW	415V – three phase
Above 100kW	415 V- three Phase

- a) NMRC has voltage levels of 415 V for LT and 33 kV for MV.
- b) For large PV system (Above 100 kW) for commercial installation having large load, the solar power can be generated at low voltage levels and may be connected to selected 415 V LT / 33 kV HT panel of NMRC. The transformers and associated switchgear would require to be provided by the SPV bidders. Connection on LT / HT panel of NMRC is in scope of Developer.
- c) Similarly, for Solar PV systems the power has to be transmitted by the SPV bidders to the nearest LT Panel available with sufficient rating for complete evacuation or new panel of required rating to be provided as above.
- d) For carrying current more than 800 A Bus duct shall be used and it shall be Sandwich Type (IEC 61439 or the latest). Air insulated bus duct will not be accepted.

- e) In case the capacity of Solar Plant is more than 1 MWp and existing power distribution at 415 V is not adequate to evacuate the energy generated, solar Developer will step up the system to 33 kV voltage and connect at the 33 kV system. For this purpose, transformer, switchgears, cable and all other associated equipment duly coordinated with the existing/planned system of NMRC, shall be provided by Solar Developer as part of this project itself.
- f) The bidder must take sanction/ approval/ NOC from the NMRC and Discoms for the connectivity of the plants to grid on net metering basis on the name of NMRC / Developer as applicable.

28. TOOLS & TACKLES AND SPARES:

- a) After completion of installation & commissioning of the power plant, necessary tools & tackles shall be maintained by the bidder for maintenance purpose.
- b) A list of requisite spares in case of PCU/inverter comprising of a set of control logic cards, IGBT driver cards etc. Junction Boxes. Fuses, MOVs / arrestors, MCCBs etc along with spare set of PV modules be indicated, which shall be maintained. A minimum set of spares shall be maintained in the plant itself for the entire period of warranty and Operation & Maintenance which upon its use shall be replenished

29. DANGER BOARDS AND SIGNAGES:

- a) Danger boards should be provided as and where necessary as per IE Act. /IE Rules as amended up to date. Three signage's shall be provided one each at battery-cum-control room, solar array area and main entry in to the area. Text of the signage's may be finalized in consultation with DMRC/NMRC.

30. FIRE EXTINGUISHERS:

- a) The firefighting system for the proposed power plant for fire protection shall be consisting of
 - i. Portable fire extinguishers in the control room for fire caused by electrical short circuits.
 - ii. Sand buckets in the control room
- b) The installation of Fire Extinguishers should confirm to TAC regulations and BIS standards. The fire extinguishers shall be provided in the control room housing PCUs as well as on the Roof or site where the PV arrays have been installed.

31. DRAWINGS & MANUALS:

- a) Three sets of Engineering, electrical drawings and Installation and O&M manuals are to be supplied. Bidders shall provide complete technical data sheets for each equipment giving details of the specifications along with make/makes in their bid along with basic design of the power plant and power evacuation, synchronization along with protection equipment.

- b) Approved ISI and reputed makes for equipment be used.
- c) For complete electro-mechanical works, bidders shall supply complete design, details and drawings for approval to DMRC before progressing with the installation work.

32. PLANNING AND DESIGNING:

Developer will engage proof consultant for checking of all Structural, Electrical and all other drawings and designs relating to this solar power project

- a) The bidder should carry out Shadow Analysis at the site and accordingly design strings & arrays layout considering optimal usage of space, material and labor. The bidder should submit the array layout drawings along with Shadow Analysis Report to DMRC/Owner for approval.
- b) DMRC/NMRC reserves the right to modify the landscaping design, Layout and specification of sub-systems and components at any stage as per local site conditions/requirements.
- c) Prior to submission of drawings to DMRC, Developer will engage third party agency (proof consultant / Chartered engineer) for checking of all Structural, Electrical and all other drawings and designs relating to this solar power project.
- d) The same third party agency will have to verify the installation after completion, whether it is safe and is as per the design approved.
- e) The third party agency employed by the developer should have earlier experience of such works.
- f) The bidder shall submit preliminary drawing for approval & based on any modification or recommendation, if any. The bidder shall submit three sets and soft copy in CD of final drawing for formal approval to proceed with construction work.

33. DRAWINGS TO BE FURNISHED BY BIDDER AFTER AWARD OF CONTRACT :

The Contractor shall furnish the following drawings after Award/Intent and obtain approval:-

- a) General arrangement and dimensioned layout.
- b) Schematic drawing showing the requirement of SPV panel, Power conditioning. Unit(s)/ inverter, Junction Boxes, AC and DC Distribution Boards, meters etc.
- c) Structural drawing along with foundation details for the structure.
- d) Itemized bill of material for complete SPV plant covering all the components and associated accessories.
- e) Layout of solar Power Array.
- f) Shadow analysis of the area.
- g) Guaranteed Technical Particular (GTP) of Solar PV modules, inverters, Remote monitoring system, DC cables, AC cables, Junction Box.

34. SOLAR PV SYSTEM ON THE ROOFTOP FOR MEETING THE ANNUAL ENERGY REQUIREMENT

The Solar PV system on the rooftop of the selected buildings will be installed for meeting the maximum energy requirements depending upon the area of rooftop available and the remaining energy requirement of the office buildings will be met by drawing power from grid.

35. SAFETY MEASURES:

The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

36. RE-POWERING:-

During the term of agreement, the power producer with the consent of purchaser can change the solar power producing equipments by replacing with higher efficient and higher capacity equipments in the same area as provided for solar PV power plant. This shall be without any change of conditions and tariff of this agreement and without any liability to the purchaser. Cost of shifting of any facilities in the premises or any other cost arising due to above change accrued by purchaser shall be compensated by the power producer.

GENERAL INFORMATION ABOUT THE BIDDER

Name of the Equity holder	Type and Number Of shares owned	Equity % of	Extent of Voting Control

GENERAL INFORMATION ABOUT THE BIDDER

<i>A. BIDDER INFORMATION SHEET</i>		
<i>Bidder's Legal Name</i>		
<i>Legal status of the Bidder</i>	Sole Proprietorship Firm / Partnership Firm / Private Limited Company / Public Limited Company / Joint Venture / Consortium (Please tick one)	
<i>In case of JV/Consortium, Legal name of each partner with percentage participation (also provide information of each member in separate sheet (page 2 of 2))</i>	Legal Name of JV/Consortium member	% participation
	1.	
	2.	
	3.	
<i>Lead member of JV/Consortium</i>		
<i>Bidder's legal address in India, telephone numbers, fax numbers, email address for communication</i>		
<i>Bidder's authorized signatory (name, designation, address, contact no.)</i>		
<i>Bidder's authorized representative (name, designation, address, contact no.)</i>		

FOLLOWING NEEDS TO BE SUBMITTED BY THE BIDDER: (by each member in case of JV/consortium) :

- a) Affidavit in case of Proprietary firm.
- b) Partnership Deed in case of partnership firm.
- c) Memorandum & Article of Association in case of a Public/Private limited company.
- d) In case of JV/Consortium, MoU/Agreement (duly notarized) entered into by the joint venture / consortium members, containing intended percentage participation, nomination of Lead Member and division of responsibility to clearly define the work of each member etc.
- e) Authorization/POA in favour of authorized signatory of bidder to sign the tender, and also in favour of authorized representative of each member in case of JV/Consortium.

Note: Bidder's authorised representative shall be deemed to have authority of the Bidder to receive and deliver any correspondence and attend meetings with DMRC related to the tender.

B. JV/CONSORTIUM MEMBER INFORMATION	
MEMBER – 1	
JV/Consortium Member's Legal Name	
Legal status of the Member	Sole Proprietorship Firm / Partnership Firm / Private Limited Company / Public Limited Company (Tick any one)
Member's country of constitution	
Member's legal address, telephone numbers, fax numbers, email address)	
Member's authorized representative (name, designation, address)	
MEMBER – 2	
JV/Consortium Member's Legal Name	
Legal status of the Member	Sole Proprietorship Firm / Partnership Firm / Private Limited Company / Public Limited Company (Tick any one)
Member's country of constitution	
Member's legal address, telephone numbers, fax numbers, email address)	
Member's authorized representative (name, designation, address)	

**SIGNATURE OF AUTHORIZED SIGNATORY
ON BEHALF OF BIDDER**

SECTION-IV

Format-B

(To be submitted in a separate package as financial bid as per clause 3.10.1 (C) of Section-1)

Contract: -NE/SPV-01 (R)

S.No.	Description	Name of the Sites	Approx. total Capacity in MWp	Project cost excluding O&M for the scope of work as per Bid document (Rs./ MWp)	Total Project Cost excluding O&M Quoted by bidder In Rs. (A)
1	Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.	NMRC Depots and Metro stations, adjacent buildings, FOBs, internal roads of Depot, boundary walls and parking areas	10 MWp (refer clause 2.2)		

Date:

Signature:.....

Place:

Printed Name.....

Business Address:

Designation:.....

Country of Incorporation:

(Common Seal).....

(State or Province to be indicated)

SECTION – IV

Format - C

PRICE BID FOR RESCO MODEL

(To be submitted in a separate package as financial bid as per clause 3.10.1 (C) of Section-1)

Year of Operation (Refer PPA Clause 7.1)	Tariff (Rs/kWh)	Discount Factor at 11%	Discounted Tariff (Rs/kWh)
1	2	3	4=(2)X(3)
1		1.000	
2		0.901	
3		0.812	
4		0.731	
5		0.659	
6		0.593	
7		0.535	
8		0.482	
9		0.434	
10		0.391	
11		0.352	
12		0.317	
13		0.286	
14		0.258	
15		0.232	
16		0.209	
17		0.188	
18		0.17	
19		0.153	
20		0.138	
21		0.124	
22		0.112	
23		0.101	
24		0.091	
25		0.082	
Total (1 to 25)		A= 9.351	B
Levellised Tariff for 25 years(in Rs /kWh)			
Levellised Tariff for 25 years in words			

i. Levellised tariff = B/A (Maximum Rs3.91 Per kWh as per clause 6.2.2)

The bids will be accepted if Levellised tariff is considered reasonable by DMRC/NMRC w.r.t purchase tariff of electricity from the Grid.

Date:-.....

Signature:-.....

Place:-.....

Name:-.....

Address: -

Company Seal

SECTION -V
FORMATS FOR SUBMITTING RFS

Format-1

Covering Letter

(The covering letter should be on the Letter Head of the Bidding Company)

Contract: -NE/SPV-01 (R)dated_____

From: _____(Insert name and address of Bidding Company)

Tel.:-.....

Fax:-.....

E-mail address:-.....

To,

DMRC Limited
Metro Bhawan, Fire Brigade Lane,
Barakhamba Road, New Delhi -1100001

Sub:-Bid for “Contract NE/SPV-01 (R) - Design, Engineering, Supply, Storage, Civil work, Erection, Testing &Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.

Dear Sir,

We, the undersigned...[insert name of the 'Bidder'] having read, examined and understood in detail the RFS Document for **Contract NE/SPV-01 (R)- Design, Engineering, Supply, Storage, Civil work, Erection, Testing &Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC..inIndia** hereby submit our Bid comprising of Price Bid and Techno Commercial Bid. We confirm that neither we nor any of our Parent Company / Affiliate/Ultimate Parent Company has submitted Bid other than this Bid directly or indirectly in response to the aforesaid RFS.

We give our unconditional acceptance to the tender dated.....and RFS Documents attached thereto, issued by DMRC, as amended. As a token of our acceptance to the RFS Documents, the same have been initialed by us and enclosed to the Bid. We shall ensure that we execute such RFS Documents as per the provisions of the RFS and provisions of such RFS Documents shall be binding on us.

1. Bid Capacity

We have bid for the following capacities in various sites as specified in this tender

document and have accordingly submitted our Price Bids for the same:

RESCO Model		Approximate capacity in kWp
1	TOTAL	10000

2. Bid Bond

We have enclosed a Bid Bond of Rs.....(Insert Amount), in the form of bank guarantee no.....(Insert number of the bank guarantee) dated.....[Insert date of bank guarantee] as per Formatfrom(Insert name of bank providing Bid Bond) and valid up toin terms of Clauseof this RFS.

3. We have submitted our Price Bid strictly as per Section IV of this RFS, without any deviations, conditions and without mentioning any assumptions or notes for the Price Bid in the said format(s).

4. In case we are a Successful Bidder, we shall furnish a declaration at the time of commissioning of the Project to the effect that neither we have availed nor we shall avail in future any Achievement linked incentive other than received from NMRC for implementation of the project.

5. Acceptance

We hereby unconditionally and irrevocably agree and accept that the decision made by DMRC Limited in respect of any matter regarding or arising out of the RFS shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.

We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to execution of projects of capacity offered by us.

6. Familiarity with Relevant Indian Laws & Regulations

We confirm that we have studied the provisions of the relevant Indian laws and regulations as required to enable us to submit this Bid and execute the RFS Documents, in the event of our selection as Successful Bidder. We further undertake and agree that all such factors as mentioned in RFS have been fully examined and considered while submitting the Bid.

7. Contact Person

Details of the contact person are furnished as under:

Name	
Designation	
Company	
Address	
Phone Nos.	
Fax Nos.	
E-mail address	

8. We are enclosing herewith the Envelope-I (Covering letter, Processing fee and Bid Bonds) Envelope-II (Techno-Commercial documents) and Envelope III (Price Bids) containing duly signed formats, each one duly sealed separately, in one original as desired by you in the RFS for your consideration.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFS and subsequent communications from DMRC Limited. The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFS and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid. We confirm that all the terms and conditions of our Bid are valid for acceptance for a period of 180 days from the Bid deadline. We confirm that we have not taken any deviation so as to be deemed non-responsive.

Dated the _____ day of _____, 20...

Thanking you,

We remain,

Yours faithfully,

Name, Designation and Signature of Authorized Person in whose name Power of Attorney/Board Resolution as per Clause.....is issued.

GENERAL PARTICULARS OF THE BIDDER

Name of the Company	
Registered Office Address	
Telephone, Telex, Fax No	
E-mail	
Web site	
Authorized Contact Person(s) with name, designation Address and Mobile Phone No., E-mail address/ Fax No. to whom all references shall be made	
Year of Incorporation	
Have the bidder/Company ever been Debarred By any Govt. Dept. / Undertaking for undertaking any work.	
Reference of any document information attached by the Bidder other than specified in the RFS.	
Whether the Bidder wishes to form a Project Company for execution of work	Yes / No
Bidding company is listed in India	Yes/No
Details of the Ownership structure (Details of persons owning 10% or more of the Total Paid up equity of the Bidding Company in the Format as below	

FORMAT FOR BID BOND

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Ref. _____

Bank Guarantee No. _____

Date: _____

In consideration of the [Insert name of the Bidder] (hereinafter referred to as 'Bidder') submitting the response to RFS inter alia for selection of the Project under of the capacity of 10MWp in the selected sites of NMRC in response to the **Contract NE/SPV-01 (R) - Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.** issued by DMRC Limited (hereinafter referred to as DMRC) and DMRC considering such response to the RFS of.....[insert the name of the Bidder] as per the terms of the RFS, the [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to DMRC at [Insert Name of the Place from the address of DMRC] forthwith on demand in writing from DMRC or any Officer authorized by it in this behalf, any amount upto and not exceeding Rupees --- --[Insert amount not less than that derived on the basis of clause 3.14 of RFS of cumulative capacity only, on behalf of M/s.[Insert name of the Bidder] .

This guarantee shall be valid and binding on this Bank up to and including [insert date of validity in accordance with Clause 3.14 of this RFS] and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to (Rs. only). Our Guarantee shall remain in force until [insert date of validity in accordance with Clause 3.14 of this RFS]. DMRC shall be entitled to invoke this Guarantee till [Insert date which is 30 days after the date in the preceding sentence].

The Guarantor Bank hereby agrees and acknowledges that the DMRC shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by DMRC, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to DMRC.

Contract: - NE/SPV-01 (R)

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [*Insert name of the Bidder*] and/or any other person. The Guarantor Bank shall not require DMRC to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against DMRC in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Delhi shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly DMRC shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder or to enforce any security held by DMRC or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to (Rs. _____ only) and it shall remain in force until [*Date to be inserted on the basis of Clause 3.14 of this RFS*] with an additional claim period of thirty (30) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if DMRC serves upon us a written claim or demand.

Signature _____

Name _____

Power of Attorney No. _____

For
_____ [*Insert Name of the Bank*] _____

Banker's Stamp and Full Address. Dated this ____ day of _____, 20__

FORMAT FOR PERFORMANCE BANK GUARANTEE(PBG)

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the [Insert name of the Bidder] (hereinafter referred to as selected Solar Power Developer') submitting the response to RFS inter alia for selection of the Project for **Contract NE/SPV-01 (R)–“Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.**of the capacity of 10 MW, at[Insert name of the place] in response to the RFS issued by DMRC Limited(hereinafter referred to as DMRC) and DMRC considering such response to the RFS of.....[insert the name of the selected Solar Power Developer] (which expression shall unless repugnant to the context or meaning thereof include its executers, administrators, successors and assignees) and selecting the Solar Power Project of the Solar Power Developer and issuing Letter of allocation No ----- to (Insert Name of selected Solar Power Developer) as per terms of RFS and the same having been accepted by the selected SPD or a Project Company, M/s ----- {a Special Purpose Vehicle (SPV) formed for this purpose}, if applicable]. As per the terms of the RFS, the [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally pay to DMRC without demur at New Delhi forthwith on demand in writing from DMRC or any Officer authorized by it in this behalf, any amount upto and not exceeding Rupees [Total Value] only, on behalf of M/s [Insert name of the selected Solar Power Developer / Project Company]

This guarantee shall be valid and binding on this Bank up to and including..... and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. _____ (Rs. _____ only). i) Nos ----- dated ----, Value -----; ii) Nos-----dated -----,

Contract: - NE/SPV-01 (R)

Value -----).

Our Guarantee shall remain in force until..... DMRC shall be entitled to invoke this Guarantee till

The Guarantor Bank hereby agrees and acknowledges that DMRC shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by DMRC, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to DMRC.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [Insert name of the selected Solar Power Developer / Project Company as applicable] and/or any other person. The Guarantor Bank shall not require DMRC to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against DMRC in respect of any payment made hereunder

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Delhi shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly DMRC shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected Solar Power Developer / Project Company , to make any claim against or any demand on the selected Solar Power Developer / Project Company or to give any notice to the selected Solar Power Developer / Project Company or to enforce any security held by DMRC or to exercise, levy or enforce any distress, diligence or other process against the selected Solar Power Developer / Project Company .

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. _____ (Rs. _____ only) and it shall

Contract: - NE/SPV-01 (R)

remain in force until We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if DMRC serves upon us a written claim or demand.

Signature
Name:-
Power of Attorney No.:-

For
[Insert Name of the Bank]

Banker's Stamp and Full Address.

Dated this ____ day of ____, 20__

Witness:

1.

Signature

Name and Address

2.

Signature

Name and Address

Notes:

1. The Stamp Paper should be in the name of the Executing Bank and of Appropriate value.

The Performance Bank Guarantee (PBG) shall be executed by any of the Scheduled Bank from the List of Banks enclosed as per Annexure-B

CHECK LIST FOR BANK GUARANTEES

Sl.No.	Details of checks	YES/NO
a)	Is the BG on non-judicial Stamp paper of appropriate value, as per applicable Stamp Act of the place of execution	
b)	Whether date, purpose of purchase of stamp paper and name of the purchaser are indicated on the back of Stamp paper under the Signature of Stamp vendor? (The date of purchase of stamp paper should be not later than the date of execution of BG and the stamp paper should be purchased either in the name of the executing Bank or the party on whose behalf the BG has been issued. Also the Stamp Paper should not be older than six months from the date of execution of BG).	
c)	Has the executing Officer of BG indicated his name, designation and Power of Attorney No./Signing Power no. on the BG?	
d)	Is each page of BG duly signed / initialed by executants and whether stamp of Bank is affixed thereon? Whether the last page is signed with full particulars including two witnesses under seal of Bank as required in the prescribed Performa?	
e)	Does the Bank Guarantees compare verbatim with the Performa prescribed in the Bid Documents?	
f)	Are the factual details such as Bid Document No. / Specification No., / LOI No. (if applicable) / Amount of BG and Validity of BG correctly mentioned in the BG	
g)	Whether overwriting/cutting if any on the BG have been properly Authenticated under signature & seal of executants?	

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

(a) Power of Attorney to be provided by the Bidding Company in favour of its representative as evidence of authorized signatory's authority.

Know all men by these presents, We
(Name and address of the registered office of the Bidding Company as applicable) do hereby constitute, appoint and authorize Mr./Ms.
(Name & residential address) who is presently employed with us and holding the position of

..... as our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of our Bid for **Contract NE/SPV-01 (R) – “Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.** in response to the NIT No dated issued by DMRC Limited (DMRC), New Delhi including signing and submission of the Bid and all other documents related to the Bid, including but not limited to undertakings, letters, certificates, acceptances, clarifications, guarantees or any other document which the DMRC may require us to submit. The aforesaid Attorney is further authorized for making representations to the DMRC Limited, New Delhi and providing information / responses to DMRC, New Delhi representing us in all matters before DMRC, New Delhi and generally dealing with DMRC, New Delhi in all matters in connection without Bid till the completion of the bidding process as per the terms of the above mentioned NIT.

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

All the terms used herein but not defined shall have the meaning ascribed to such terms under the NIT.

Signed by the within named
..... **(Insert the name of the executant company)**

through the hand of
Mr.
duly authorized by the Board to issue such Power of Attorney

Dated this day of

Accepted

.....

Signature of Attorney

(Name, designation and address of the Attorney)

Attested

.....

(Signature of the executants)

(Name, designation and address of the executants)

.....

Signature and stamp of Notary of the place of execution

Common seal of has been affixed in my/our presence pursuant to Board of Director's Resolution dated.....

WITNESS

1.
(Signature)
Name.....
Designation
2.
(Signature)
Name.....
Designation

Notes:

The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants(s) and the same should be under common seal of the executants affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executants(s) in this regard.

The person authorized under this Power of Attorney, in the case of the Bidding Company / Lead Member being a public company, or a private company which is a subsidiary of a public company, in terms of the Companies Act, 1956 / 2013, with a paid up share capital of more than Rupees Five Crores, should be the Managing Director / whole time director/manager appointed under section 269 of the Companies Act, 1956 / 2013. In all other cases the person authorized should be a director duly authorized by a board resolution duly passed by the Company.

Also, wherever required, the executants(s) should submit for verification the extract of the chartered documents and documents such as a Board resolution / power of attorney, in favor of the person executing this power of attorney for delegation of power hereunder on behalf of the executants (s).

FINANCIAL ELIGIBILITY CRITERIA REQUIREMENT (AS PER CLAUSE 3.4)

(To be submitted on the letterhead of Bidding Company)

To,

DMRC Limited

Metro Bhawan, Fire Brigade Lane,
Barakhamba Road, New Delhi -1100001

Dear Sir,

Sub: - Bid for Contract NE/SPV-01 (R) – “Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.

We submit our Bid/Bids for the total capacity of 10 MW (Insert total offered capacity in MW; for Bids for which we submit details of our Financial Eligibility Criteria Requirements.

We certify that the Financially Evaluated Entity (ies) had an Annual Turnover and Net worth as specified in clause 3.4.3 of section I

Name of Financially Evaluated Entity*	Relationship with Bidding Company**	Financial year	Year of Incorporation	Annual Turnover (Rs. Crore) as per Clause 3.4.3 (inRs. Crore)	Net worth as per Clause 3.4.3 (inRs. Crore)

Contract: - NE/SPV-01 (R)

➤ Attach Separately Format-12 with this format.

* The Financially Evaluated Entity may be the Bidding Company itself.

** The column for "Relationship with Bidding Company" is to be filled in only in case financial capability of Parent Company and/or Affiliate has been used for meeting Qualification Requirements.

Yours faithfully

(Signature and stamp (on each page) of Authorized Signatory of Bidding Company)

Name:-.....

Date:-.....

Place:-.....

Signature and stamp (on each page) of Chartered Accountant/Statutory Auditors of Bidding Company.

Name:

Date:

Place:

Notes:

Audited consolidated annual accounts of the Bidder may also be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Bid.

Format for certificate of relationship of Parent Company or Affiliate with the Bidding Company.

To,

.....
.....
.....

Dear Sir,

Sub: - Bid for Contract NE/SPV-01 (R) – “Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.

We hereby certify that M/s.....,M/s.....,M/s.....are the Affiliate(s) /Parent Company of the Bidding Company as per the definition of Affiliate/Parent Company as provided in this RFS and based on details of equity holding as on seven (7) days prior to the Bid Deadline.

The details of equity holding of the Affiliate/Parent Company/Bidding Company or vice versa as on seven (7) days prior to the Bid Deadline are given as below:

Name of Bidding Company	Name of the Affiliate of the Bidding Company/ Name of the Parent Company of the Bidding Company	Name of the Company having common control on the Affiliate and the Bidding Company	Percentage of Equity Holding of Parent Company in the Bidding Company

*Strike out whichever is not applicable.

(Insert Name and Signature of Statutory Auditor or in practice Company Secretary of the Bidder)

**Undertaking from the Financially Evaluated Entity or its Parent Company/
Ultimate Parent Company**

**(On the Letter Head of the Financially Evaluated Entity or its Parent
Company/Ultimate Parent Company)**

Name:

Full Address:

Telephone No.:

E-mail address:

Fax/No.:

To,

.....

Dear Sir,

We refer to the RFS No.....dated.....for **Contract NE/SPV-01 (R) – “Design, Engineering, Supply, Storage, Civil work, Erection, Testing &Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.**

“We have carefully read and examined in detail the RFS, including in particular, Clauseof the RFS, regarding submission of an undertaking, as per the prescribed Format at Annexure.....of the RFS.

We confirm that M/s.....(Insert name of Bidding Company/) has been authorized by us to use our financial capability for meeting the Financial Eligibility as specified in Clause....of the RFS referred to above.

We have also noted the amount of the Performance Guarantee required to be submitted as per Clause....of the RFS the(Insert the name of the Bidding Company) in the event of it being selected as the Successful Bidder”.

In view of the above, we hereby undertake to you and confirm that in the event of failure of(Insert name of the Bidding Company) to submit the Performance Guarantee in full or in part at any stage, as specified in the RFS, we shall submit the Performance Guarantee not submitted by(Insert name of the Bidding Company)”.

We have attached hereto certified true copy of the Board Resolution Whereby the Board of Directors of our Company has approved issue of this Undertaking by the Company.

All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under the RFS.

Signature of Chief Executive Officer/Managing Director

Common seal ofhas been affixed in my/our presence pursuant to Board of Director's Resolution dated.....

WITNESS

.....

(Signature)

Name.....

Designation.....

.....

(Signature)

Name.....

Designation.....

ANNEXURE-1 Work Experience

Applicant's legal name Date.....

Group Member's legal name..... Page of pages

For similar works as per clause no. 3.4.2

Work Experience		
Contract Number	Information	
Contract Identification		
Award date Completion date		
Employer's Name		
Employer's Address: Telephone / Fax number: E Mail		
Role in Contract (Individual/JV/JVA member)	Individual	JV Member
Completion Cost	Currencies (as stated in Clients Certificate)	In equivalent INR at 31.12.2017 price level
If JV member, specify percentage participation in contract & amount (Please refer Note-1)	% participation	In equivalent INR
Quantum of similar work in support of clause no. 3.4.2		In case of JV/JVA, actual works executed by the Applicant (duly substantiated with Client Certificate)

NOTE: 1. Only the value of contract as executed by the applicant/member in his own name should be indicated. Where a work is undertaken by a group, JV/JVA only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.

2. Separate sheet for each work along with Clients Certificate and performance certificate six months in operation after the completion of work, to be submitted.

ANNEXURE - 1A: Summary of Information provided in Annexure-1

Applicant's legal name Date.....

Group Member's legal name..... Page of pages

Name of Applicant (each member in case of group, JV/JVA)	Total Number of works As per clause no. 3.4.2 at the price level of as on date 31.12.2017	No. of contracts delayed, i.e., completed beyond the original date of completion

NOTE:-

1. In case the work was done as JV/JVA, only the value of work done by the applicant as per his Percentage participation must be given.
2. Reasons of delay whether on contractors account or on account of Employer in each applicable case need to be enclosed separately.

RFS No: Date :		
1	Name of the owner / beneficiary&Complete postal address :-	
2	Name of the Authorized contact person : (Including mobile no & Email-id)	
3	Address of SPV power plant installed :	
4	Name of the Installer/Successful Bidder :	
Sr. No	Component	Details
1	Installed Rooftop SolarPV Project capacity in (kWp)	
2	Whether training was provided by installer for operation and maintenance of SPV plant. Note: Operation & Maintenance (O&M) of SPV Plant.	
3	Whether the following documents were provided or not	
	Installation manual(SPV system), certificates, catalogue, As Built drawings for (DC SLD, AC SLD, Plant Layout, Civil & Structural drawings, SCADA drawings, Earthing drawing, Lightning drawings, Bill of Quantity (BOQ), Design sheet for Earthing calculations, other drawings, etc.,	
	Copy of the Warrantees and Guarantees of the different components of Solar PV system.	
	Insurance as per RFS	
	Recommended list of spares for 25 years.	
	Web link for Remote monitoring of SPV plant including username & password to be provided installer to NMRC.	
	Performance Ratio(PR) should be minimum of 75% for initial commissioning acceptance.	

Contract: - NE/SPV-01 (R)

	Capacity utilization factor (CUF) should be certified by Owner of the plant /beneficiary during 2 years O&M period.	
4	Project cost allocated isRs. / Wpto	
	Cost break up	Owner share: Rs. / Wp
		MNRE/Govt Share : Rs. / Wp

Declaration:

1. It is to certify that all the information given above is true and correct to best of my knowledge. We are satisfied with the installation of SPV system and working satisfactorily as per above details.

Signature of Authorized Signatory on each page: _____

Name _____ Designation _____

Seal:

ANNEXURE- 2

Financial DATA

Applicant's legal name
 Group Member's legal name.....

Date:- --/--/20__
 Page of Pages

Each Applicant or member of a JV must fill in this form

S.N.	Description	Financial Data for Latest Last 5 Years (Indian Rupees) (audited data)				
		2012-13	2013-2014	2014-2015	2015-2016	2016-2017
	Financial Year					
1.	Total Assets					
2.	Current Assets					
3.	Total External Liabilities					
4.	Current Liabilities (inclusive of provisions, if any)					
5.	Annual Profits Before Taxes					
6.	Annual Profits After Taxes					
7.	Net Worth [= 1 - 3]	X	X	X	X	
8.	Working Capital [=2 - 4]	X	X	X	X	
9.	Return on Equity					
10	Annual turnover					

Attach copies of the audited balance sheets, including all related notes, income statements for the last five audited financial years, as indicated above, complying with the following conditions.

1. Separate Performa shall be used for each member in case of JV/JVA.
2. All such documents reflect the financial data of the Applicant or member in case of JV, and not sister or Parent Company.
3. Historic financial statements shall be audited by Statutory Auditor of the Company under their seal & stamp and shall be strictly based on Audited Annual Financial results of the relevant period(s). No statements for partial periods will be accepted.
4. Historic financial statements must be complete, including all notes to the financial statements.
5. Applicants whose financial year closure falls in months other than March, may submit all relevant data for the last 5 years i.e. 2012, 2013, 2014, 2015 and 2016.
6. Return on Equity = Net Income / Shareholders Equity
 Return on Equity = Net Income is for the full fiscal year (before dividends paid to common stock holders but after dividends to preferred stock).

Shareholders equity does not include preferred shares.

7. The above Annexure shall be duly certified by Chartered Accountant / Company Auditor under his signature & stamp.

CONSORTIUM AGREEMENT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution)

THIS Consortium Agreement (“Agreement”) executed on this _____ day of _____ 2018 between M/s [insert name of Lead Member] _____ a Firm / Company incorporated under the laws of _____ and having its Registered Office at _____ (hereinafter called the “Lead Member”, which expression shall include its successors, executors and permitted assigns) and

M/s _____ a Firm / Company incorporated under the laws of _____ and having its Registered Office at _____ (hereinafter called the “Technical Member”, which expression shall include its successors, executors and permitted assigns), which expression shall include its successors, executors and permitted assigns)

WHEREAS, each Member individually shall be referred to as the “Member” and both the Members shall be collectively referred to as the “Members” in this Agreement. WHEREAS the DMRC Limited (hereinafter called DMRC or Employer), has invited response to **Contract NE/SPV-01 (R) – “Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.**

WHEREAS the RFS documents stipulates that the Lead Member may enter into a Technical Consortium Agreement with another Company / Corporate entity to fulfill the Technical Eligibility Criteria as stipulated in the RFS document. The Members of the Bidding Consortium will have to submit a legally enforceable Consortium Agreement in a format enclosed with the RFS document.

NOW THEREFORE, THIS AGREEMENT WITNESSTH AS UNDER:

In consideration of the above premises and agreements all the Members in this Consortium do hereby mutually agree as follows

1. We, the Members of the Consortium and Members to the Agreement do hereby unequivocally agree that (M/s _____), shall act as the Lead Member as defined in the RFS for self and agent for and on behalf of Technical Member
2. The Lead Member is hereby authorized by the Technical Member of the Consortium to bind the Consortium and receive instructions for and on their behalf.
3. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all of their respective obligations. Each Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this Agreement.

4. Subject to the terms of this Agreement, the Technical member shall be responsible for providing technical knowledge for “Design, Manufacture, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance for a period of 25 years of Roof Top Solar PV power system in selected Sites/ locations in NMRC” to the lead member.
5. In case of any breach of any commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.
6. This Agreement shall be construed and interpreted in accordance with the Laws of India and courts at GautamBudh Nagar (Noida) alone shall have the exclusive jurisdiction in all matters relating thereto and arising there under.
7. It is hereby further agreed that in case of being shortlisted, the Members do hereby agree that they shall abide by the terms & conditions of the RFS document.
8. It is further expressly agreed that this Agreement shall be irrevocable and shall form an integral part of the RFS submitted to DMRC and shall remain valid till completion of the job assigned to the Contractor.
9. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Members respectively from time to time in the response to RFS.
10. It is hereby expressly understood between the Members that no Member at any given point of time, may assign or delegate its rights, duties or obligations under this agreement without the explicit permission of DMRC.
11. This Agreement
 - (a) Has been duly executed and delivered on behalf of each Member hereto and constitutes the legal, valid, binding and enforceable obligation of each such Member;
 - (b) Sets forth the entire understanding of the Members hereto with respect to the subject matter hereof; and
 - (c) May not be amended or modified except in writing signed by each of the Members and with prior written consent of DMRC. IN WITNESS WHEREOF, the Members have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

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

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

Witnesses:

1) Signature-----

Name:

Address:

2) Signature -----

Name:

Address:

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

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

Witnesses

UNDERTAKING FOR CORRUPT & FRAUDULANT PRACTICE

It is confirmed and declared that we, or any of our associate, have not been engaged in any fraudulent and corrupt practice and that no agent, middleman or any intermediary has been, or will be, engaged to provide any services, or any other items of work related to the award and performance of this contract and no agency commission or any payment which may be construed as an agency commission has been, or will be, paid and that the tender price will not any such amount.

STAMP & SIGNATURE OF AUTHORIZED SIGNATORY

NOTE:

1. In case of JV/Consortium, the undertaking shall be submitted by each member of the JV/Consortium.
2. The undertaking shall be signed by authorized signatory of the bidder or constituent member in case of JV/Consortium.

(Undertaking as per clause 3.4.1 vii of Section-I)

We do hereby undertake that DMRC / any Central / State government department / public sector undertaking / other government entity or local body has not banned business with us as on the date of tender submission. Also none of the work has been rescinded / terminated by DMRC / any Central or State Govt. Department / Public Sector Undertaking / Other Govt. entity or local body after award of contract to us during last 3 years (from the last day of the previous month of tender submission) due to our non-performance.

STAMP & SIGNATURE OF AUTHORISED SIGNATORY

Note:

1. In case of JV/Consortium, the undertaking shall be submitted by each member of the JV/Consortium.
2. The undertaking shall be signed by authorized signatory of the bidder. In case of JV/Consortium by the authorized signatory of the constituent members counter signed by the authorized signatory of bidder.

(Undertaking as per clause 3.4.1 viii of Section-I)
(UNDERTAKING FOR NOT BEING PENALISED IN A CONTRACT)

We do hereby undertake that DMRC / Any other Metro Organisation (100% owned by Govt.), Ministry of Housing and Urban Affairs / Order of Ministry of Commerce, applicable for all Ministry has not banned business with us as on the date of tender submission. Also any work of the value more than 10% of NIT cost of work, executed either individually or in a JV/Consortium, has not been rescinded / terminated by DMRC / Any other Metro Organisation (100% owned by Govt.), after award of contract to us during last 3 years (from the last day of the previous month of tender submission) due to our non-performance.

STAMP & SIGNATURE OF AUTHORISED SIGNATORY

Note :

1. In case of JV/Consortium, the undertaking shall be submitted by each member of the JV/Consortium.
2. The undertaking shall be signed by authorized signatory of the bidder. In case of JV/Consortium by the authorized signatory of the constituent members counter signed by the authorized signatory of bidder.

(Undertaking as per clause 3.4.1 ix of Section-I)
(UNDERTAKING FOR FINANCIAL STABILITY)

We do hereby undertake that we have not suffered bankruptcy/insolvency during the last 5 years.

STAMP & SIGNATURE OF AUTHORISED SIGNATORY

Note :

1. In case of JV/Consortium, the undertaking shall be submitted by each member of the JV/Consortium.
2. The undertaking shall be signed by authorized signatory of the bidder. In case of JV/Consortium by the authorized signatory of the constituent members counter signed by the authorized signatory of bidder.

UNDERTAKING FOR DOWNLOADED TENDER DOCUMENT

We here by confirm that, we have downloaded / read the complete set of tender documents /addendum/clarifications along with the set of enclosures hosted on e-tendering portal <https://eprocure.gov.in/eprocure/app>. We confirm that we have gone through the bid documents, addendums and clarifications for this work placed upto the date of opening of bids on the e-tendering portal [<https://eprocure.gov.in/eprocure/app>]. We confirm our unconditional acceptance for the same and have considered for these in the submission of our financial bid.

Signature of authorised signatory

(Ref. Clause 3.4.1 (XII) of NIT)

1. I/We hereby confirm and declare that my/our firm/company, M/s....., has not been put on defaulter's list of EPF/ESI/GST/Labour Deptt. etc. during the last three years (from the last day of the previous month of tender submission).

2. I/We hereby confirm and declare that my/our firm/company M/s..... is not involved in any illegal activity and/or has not been charge sheeted for any criminal act during the last three years (from the last day of the previous month of tender submission).

3. I/We hereby confirm that no work of the value more than 10% of NIT cost of work, executed either individually or in a JV/Consortium, has been foreclosed or scope under the contract is reduced by DMRC after award during the last three years (from the last day of the previous month of tender submission) due to non-performance of the tenderer or any of JV/Consortium members.

STAMP & SIGNATURE OF AUTHORISED SIGNATORY

Note :

1. In case of JV/Consortium, the undertaking shall be submitted by each member of the JV/Consortium.
2. The undertaking shall be signed by authorized signatory of the tenderer. In case of JV/Consortium by the authorized signatory of the constituent members counter signed by the authorized signatory of tenderer.

DOCUMENTS REQUIRED FOR PROJECT SANCTION

Following documents will be required to be submitted for project sanction:

1. Project Report

(Project report should contain the following)

- Context / background / Introduction
- Project objectives
- Target beneficiaries
- Project strategy / Approach of work & methodology
- Environmental Impact Assessment, if required.
- Site details including photographs with date & time stamping
- Solar resource assessment
- Technology selection (Module, Inverter and BOS)
- Design, Simulation, BOM and layout of SPV plant
- Grid connectivity and metering scheme
- Means of financing and project budget
- Financial, Economic & Risk Analysis
- Time frame / schedule of implementation
- Shadow Analysis

2. Agreement between the bidder and the owner of the Project and Building/Roof top (Notarized original agreement on stamp paper of appropriate value should be enclosed).

All Agreement shall generally have reference to the **DMRC Contract NE/SPV-01 (R) – “Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.**and Letter of Allocation and provisions as per terms and conditions, technical specification and performance parameter in line with the **DMRC RFSD** Document against which Letter of Allocation has been issued. In addition, it shall indicate the price / tariff payable by the roof top Owner to the developer, payment terms, completion period along with other conditions of contract like insurance, warranty, force majeure, arbitration, jurisdiction, governing law, site access for the developer, and, site access for **DMRC/NMRC** officials for the entire plant life.

3. No Objection Certificate from the **NMRC** for grid connectivity.

Annexure-B

All scheduled Commercial banks based in India and having branch in India.

SECTION- VI

DATED _____, 2018

POWER PURCHASE AGREEMENT

BETWEEN

POWER PRODUCER (Insert entity name)

AND

POWER PURCHASER (NMRC Limited)

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POWER PURCHASE AGREEMENT

THIS POWER PURCHASE AGREEMENT is made at _____ on _____, 2018

Between

_____ **[insert entity name]** a company incorporated in India under the provisions of the Companies Act 2013, with its registered office at _____ hereinafter referred to as the "**Power Producer**" (which expression shall unless repugnant to the context mean and include its successors and assigns);

AND

***NMRC Limited**, incorporated as Public Limited with Registrar of Company, Uttar Pradesh on 5th Nov. 2014 under the Companies Act, 2013 by New Okhla Industrial Development Authority and Greater Noida Development Authority, having its registered office at Ganga Shopping Complex, Sector – 29, Noida, Gautam Budh Nagar, India, hereinafter referred to as the "**Purchaser**" (which expression shall unless repugnant to the context mean and include its successors and assigns). The Power Producer and the Purchaser are each individually referred to as a "**Party**" and collectively as the "**Parties**".*

WHEREAS;

- A.** The DMRC had invited proposals by its Notice No. [*] dated [*] (the "Tender Notice") of **Contract NE/SPV-01 (R) – "Design, Engineering, Supply, Storage, Civil work, Erection, Testing & Commissioning of the Solar PV project in RESCO Model for a period of 25 years after commissioning of projects in Depot and Metro Stations of NMRC.**
- B.** For selection of bidders for Implementation of Roof Top Solar PV System at Depots and Metro Stations of NMRC. DMRC had prescribed the technical and commercial terms and conditions, and invited bids from the shortlisted bidders pursuant to the Tender Notice for undertaking the Project.
- C.** After evaluation of the bids received, the DMRC notified [*] (Consortium/JV) as the Successful Bidder for "Design, Engineering, Manufacture, Supply, Storage, Civil work, Erection, Testing & Commissioning of the rooftop solar PV project including Operation and Comprehensive Maintenance (O&M) of the project for a period of 25 years after commissioning of plants" and has been awarded [*] kWp of capacity as per Technical Specification & other details of Contract:- NE/SPV-01 (R) dated [*] of DMRC, and issued its Letter of Allocation no. [*] dated [*] (hereinafter called the "LOA") to the Successful Bidder requiring, inter alia, the execution of this Power Purchase Agreement within 60 days of the date of issue thereof.
- D.** Pursuant to clause 3.5 of RFS documents, the Consortium/JV/Successful Bidder has since promoted and incorporated the Project Company ("Power Producer" herein) as a limited company under the Companies Act 2013, and has requested the DMRC vide its letter no. [•] dated [•], supported with its Board Resolution(s) dated [•], to accept the Project Company as the entity which shall undertake and

perform the obligations and exercise the rights of the Consortium/JV/Successful Bidder under the LOA, including the obligation to enter into this Agreement pursuant to the LOA for executing the Project.

- E. By its letter dated [•], supported by its Board Resolution, the said Project Company (Power Producer herein) has also joined in the said request of the Consortium/JV/Successful Bidder to the DMRC to accept it as the entity which shall undertake and perform the obligations and exercise the rights of the Consortium/JV/Successful Bidder including the obligation to enter into this Agreement pursuant to the LOA. The Power Producer herein/Project Company has further represented to the effect that it has been promoted by the Consortium /JV/Successful Bidder for the purposes hereof.
- F. The Power Producer herein/Project Company has agreed to install and operate a solar photovoltaic power plant of [•] MW capacity (the “Project”) at the Premises as defined hereinafter and supply the entire Solar Power of the Project to the Purchaser on the terms and conditions contained in this Agreement.
- G. The DMRC has agreed to the said request of the Consortium/JV/Successful Bidder and the Power Producer herein/Project Company, and has accordingly agreed to enter into this Agreement with the Power Producer herein/Project Company for execution of the Project, subject to and on the terms and conditions set forth hereinafter.
- H. The Purchaser has agreed to purchase the entire Solar Power of the Project on the terms and conditions contained in this Agreement.

NOW THEREFORE in consideration of the mutual promises, conditions and covenants set forth herein, the Parties hereby agree as below:

Definitions and Interpretation

1.1 Definitions

In addition to other capitalized terms specifically defined elsewhere in the Agreement or unless the context otherwise requires, the following words and phrases shall be defined as follows:

- (a) “**Actual Monthly Production**” means the amount of energy recorded by the Main Metering System during each calendar month of the Term, pursuant to Section 5.2;
- (b) “**Affiliate**” means with respect to any specified Person, any other Person directly or indirectly controlling, controlled by or under common control with such specified Person;
- (c) “**Agreement**” means this Power Purchase Agreement executed hereof, including the schedules,, amendments, modifications and supplements made in writing by the Parties from time to time;
- (d) “**Applicable Law**” means, with respect to any Person, any constitutional provision, law, statute, rule, regulation, ordinance, treaty, order, decree, judgment, decision, certificate, holding, injunction, registration, license, franchise, permit, authorization, guideline, Governmental Approval, consent or requirement

of any Governmental Authority in India having jurisdiction over such Person or its property, enforceable by law or in equity, including the interpretation and administration thereof by such Governmental Authority;

- (e) **“Assignment”** has the meaning set forth in Section 14.1;
- (f) **“Business Day”** means any day other than Sunday or any other day on which banks in Noida are required or authorized by Applicable Law to be closed for business;
- (g) **“Commercial Operation Date”** has the meaning set forth in Section 4.3(b);
- (h) **“Confidential Information”** has the meaning set forth in Section 16.1;
- (i) **“Consents, Clearances and Permits”** shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the purpose of setting up of the generation facilities and/or supply of power;

- (j) **“Contingent Liability”** that is not now fixed and absolute but which may become so in case of the occurrence of some future event.

- (k) **“Deemed Generation”** has the meaning set forth in Section 5.3(b);
- (l) **“Delivery Point”** shall be the single point, at a location mutually agreed by the Parties, in line with applicable regulation/rules where Solar Power is delivered by the Power Producer from the System to the Purchaser;

- (m) **“Dispute”** has the meaning set forth in Section 17.8 (b);
- (n) **“Disruption Period”** has the meaning set forth in Section 5.3(b);
- (o) **“Distribution Utility”** means the local electric distribution owner and operator providing electric distribution and interconnection services to Purchaser at the Premises;
- (p) **“Due Date”** has the meaning set forth in Section 7.4;
- (q) **“Effective Date”** has the meaning set forth in Section 2;
- (r) **“Estimated Remaining Payments”** means as of any date, the estimated remaining Solar Power Payments to be made through the end of the applicable Term, as reasonably determined by the Power Producer in accordance with Section 7.1;

- (s) **“Expiration Date”** means the date on which the Agreement terminates by reason of expiration of the Term;
- (t) **“Financing Party”** means, as applicable (i) any Person (or its agent) from whom the Power Producer (or an Affiliate of the Power Producer) leases the System, or (ii) any Person (or its agent) who has made or will make a loan to or otherwise provide financing to the Power Producer (or an Affiliate of the Power Producer) with respect to the System;

- (u) **“Force Majeure Event”** has the meaning set forth in Section 11.1;
- (v) **“Governmental Approval”** means any approval, consent, franchise, permit, certificate, resolution, concession, license, or authorization issued by or on

behalf of any applicable Governmental Authority for the purpose of setting up of the Project and/ or for sale and purchase of Solar Power of the Project pursuant to this Agreement;

- (w) **“Governmental Authority”** means any central, state, regional, district, town, city, or municipal government, whether domestic or foreign, or any department, agency, bureau, or other administrative, regulatory or judicial body of any such government;
- (x) **“Indemnified Persons”** means the Purchaser Indemnified Parties or the Power Producer Indemnified Parties, as the context requires;
- (y) **“Insolvency Event”** means with respect to a Party, that either:
 - (i) such Party has (A) applied for or consented to the appointment of, or the taking of possession by, a receiver, custodian, trustee, administrator, liquidator or the like of itself or of all or a substantial part of its assets or business; (B) been unable to pay its debts as such debts become due; (C) made a general assignment for the benefit of its creditors; (D) commenced a voluntary proceeding under any insolvency or bankruptcy law; (E) filed a petition seeking to take advantage of any other law relating to bankruptcy, insolvency, reorganization, winding up, or composition or readjustment of debts; or (F) taken any corporate or other action for the purpose of effecting any of the foregoing; or
 - (ii) It is clarified that a dissolution or liquidation will not be an Insolvency Event if such dissolution or liquidation is for the purpose of a merger, consolidation or reorganization, and the resulting company retains creditworthiness similar to the dissolved or liquidated entity and expressly assumes all obligations of the dissolved and liquidated entity under this Agreement and is in a position to perform them;
- (z) **“Installation Work”** means the construction and installation of the System and the start-up, testing and acceptance (but not the operation and maintenance) thereof, all performed by or for the Power Producer at the Premises;
- (aa) **“Invoice Date”** has the meaning set forth in Section 7.2;
- (bb) **“Lender”** means such bank, or other financial institution, including their successors and assignees, who have agreed to provide the Power Producer with debt financing of the Project
- (cc) **“Losses”** means all losses, liabilities, claims, demands, suits, causes of action, judgments, awards, damages, cleanup and remedial obligations, interest, fines, fees, penalties, costs and expenses (including all attorneys’ fees and other costs and expenses incurred in defending any such claims or other matters or in asserting or enforcing any indemnity obligation);
- (dd) **“Main Metering System”** means all meter(s) and metering devices owned by the Power Producer and installed at the Delivery Point for measuring and recording the delivery and receipt of energy;
- (ee) **“Metering Date”** means the first Business Day of each calendar month subsequent to the month in which the Solar Power is generated by the

Power Producer. The billable units shall be equal to the difference between the meter reading on the Metering Date and the meter reading on the previous month's Metering Date;

- (ff) **"Party"** or **"Parties"** has the meaning set forth in the preamble to this Agreement;
- (gg) **"Performance Ratio"**
- (hh) **"Person"** means an individual, partnership, corporation, limited liability company, business trust, joint stock company, trust, unincorporated association, joint venture, firm, or other entity, or a Governmental Authority;
- (ii) **"Power Producer Default"** has the meaning set forth in Section 12.1(a);
- (jj) **"Power Producer Indemnified Parties"** has the meaning set forth in Section 17.2;
- (kk) **"Premises"** means the premises described in Schedule 1 to this Agreement. For the avoidance of doubt, the Premises includes the entirety of any structures and underlying real property located at the address described in Schedule 1 to this Agreement;
- (ll) **"Purchase Date"** means the date on which title to the System transfers to the Purchaser pursuant to the Purchaser exercising its purchase option under Section 3.2;
- (mm) **"Purchase Price"** means the fee payable by Purchaser to the Power Producer under the circumstances described in Section 3.2, Section 5.3(a) or Section 12.2 (b);
- (nn) **"Purchaser Default"** has the meaning set forth in Section 12.2(a);
- (oo) **"Purchaser Indemnified Parties"** has the meaning set forth in Section 17.1;
- (pp) **"Representative"** has the meaning set forth in Section 16.1;
- (qq) **"Scheduled Completion Date"** has the meaning set forth in Section 4.1 (g);
- (rr) **"Security Interest"** has the meaning set forth in Section 9.2;
- (ss) **"Selectee"** means a new company (i) proposed by the Lenders pursuant to Section 12.1 read with Schedule VI hereof and approved by the Purchaser (ii) or proposed by the Purchaser in accordance with Schedule VI hereof and approved by the Lenders, for substituting the Power Producer for the residual period of the Agreement by amendment of the Agreement or by execution of a fresh power purchase agreement in accordance with the terms and conditions contained in the said Schedule.
- (tt) **"Solar Power"** means the supply of electrical energy output from the System;
- (uu) **"Solar Power Payment"** has the meaning set forth in Section 7.1;

- (vv) **“System/Plant”** includes the integrated assembly of photovoltaic panels, mounting assemblies, inverters, converters, metering, lighting fixtures, transformers, ballasts, disconnects, combiners, switches, wiring devices and wiring, and all other material comprising the Installation Work;
- (ww) **“System Operations”** means the Power Producer’s operation, maintenance and repair of the System performed in accordance the requirements herein;
- (xx) **“Tariff”** means the price per kWh set forth in Schedule II hereto;
- (yy) **“Term”** has the meaning set forth in Section 3.1;
- (zz) **“Transfer Time”** has the meaning set forth in Section 5.3(a).

1.2 Interpretation

- (a) Unless otherwise stated, all references made in this Agreement to “Sections”, “Clauses” and “Schedules” shall refer respectively to Sections, Clauses and Schedules of this Agreement. The Schedules to this Agreement form an integral part of this Agreement and shall have effect as though they were expressly set out in the body of this Agreement.
- (b) In this Agreement, unless the context otherwise requires (i) words imparting singular connotation shall include plural and vice versa; (ii) the words “include”, “includes”, and “including” mean include, includes, and including “without limitation” and (iii) the words “hereof”, “hereto”, “herein” and “hereunder” and words of similar import refer to the Agreement as a whole and not to any particular provision of the Agreement.

2. Effective Date

This Agreement shall be effective on the day that falls one Business Day after the date of signing of this Agreement.

3. Term and Termination

3.1 Term

The term of the Agreement shall commence on the Effective Date and shall continue for twenty five (25) years from the Commercial Operations Date (the “Term”), unless and until terminated earlier pursuant to the provisions of the Agreement. After the Term, the ownership of the System shall be transferred to the Purchaser free of cost.

3.2 Purchase Option

So long as a Purchaser Default shall not have occurred and be continuing, Purchaser has the option to purchase the System by paying the Power Producer the Purchase Price as per Schedule III to this Agreement. To exercise its purchase option, the Purchaser shall, not less than Ninety (90) days prior to the proposed Purchase Date, provide written notice to the Power Producer of Purchaser's intent to exercise its option to purchase the System on such Purchase Date. In the event Purchaser confirms its intention to exercise the purchase option in writing to the Power Producer, (i) Purchaser shall pay the applicable Purchase Price to the Power Producer on the Purchase Date, such payment to be made in accordance with any written instructions delivered to Purchaser by the Power Producer for payments under the Agreement, and (ii) the Parties shall promptly execute all documents necessary to (A) cause title to the System to pass to Purchaser on the Purchase Date, free and clear of all liens, and (B) assign all vendor warranties for the System to Purchaser. Upon execution of the documents and payment of the applicable purchase price, in each case as described in the preceding sentence, the Agreement shall terminate automatically and the Purchaser shall become the owner of the System. Upon such termination, the Power Producer shall offer its operations and maintenance ("O&M") services to the Purchaser and the Parties may enter into an O&M agreement in this regard. The terms and conditions of the O&M agreement will be negotiated in good faith between the Parties.

3.3 Not Used

Not Used

4. Construction, Installation, Testing and Commissioning of the System

4.1 Installation Work

- (a) The Power Producer will cause the Project , Supply, Storage Civil work, Erection, Testing & Commissioning of the rooftop solar PV project including Operation and Comprehensive Maintenance (O&M) of the project for a period of 25 years after commissioning of projects in accordance with **Contract: - NE/SPV-01 (R)** dated.....of DMRC and the approved DPR by NMRC attached as Schedule I hereto. The Power Producer shall provide to the Purchaser a bill of materials listing the major equipment constituting the System. Such bill of materials shall be provided within 30 days of the Commercial Operation Date.
- (b) The Power Producer shall have access as reasonably permitted by the Purchaser to perform the Installation Work at the Premises in a manner that minimizes inconvenience to and interference with the use of the Premises to the extent commercially practical.

- (c) It is agreed between the Parties that the Power Producer shall commission the System with a capacity of approximately 10000 kWp. Power Producer may construct a System of smaller size if it receives only part approval of government subsidies or for any other material commercial reason, as mutually agreed between the Parties. In the event a System of smaller capacity is eventually agreed to be installed, the clauses pertaining to Purchase Price as set out under this Agreement shall be adjusted proportionately as per mutual agreement between the Parties
- (d) The Power Producer shall provide and lay the dedicated electrical cables for transmission of Solar Power from the System up to the Delivery Point. Transmission or distribution of Solar Power beyond this point will be the responsibility of the Purchaser. The Delivery Point shall be where the Main Metering System is located.
- (e) Unless otherwise agreed between the Parties, the Power Producer shall not do (a) chipping of rooftop; or (b) water proofing of roof to be disturbed (c) carry out any other modification of the Premises without the written consent of the Purchaser. The Power Producer shall maintain general cleanliness of area around the Plant during construction and operation period of the Project. In case any damages is caused to the equipment / facilities owned by the Purchaser due to the Power Producer, the same shall be made good / rectified by the Power Producer at their cost.
- (f) The Power Producer shall, within thirty (30) days of the Effective Date, submit to the Purchaser shop drawings of the Project for approval ("**Shop Drawings**"). If the Purchaser has any objection/ recommendation in the Shop Drawings, he shall communicate the same to Power Producer within a period of ten (10) days of the date of submission of the Shop Drawings. Any delay will extend the effective date and such approval shall not be unreasonably withheld.
- (g) Subject to any punch-list items which shall be agreed by the Purchaser as not being material to completion of the Project, the Power Producer agrees that it shall achieve the completion of the Project / Commissioning of the Project within 12 Months from the date of issue of Letter of Acceptance ("**Scheduled Completion Date**") Purchaser shall ensure that sufficient load is available at the Delivery Point to ensure synchronization and drawl of power from System.
- (h) If the Power Producer is unable to commence supply of Solar Power to the Purchaser by the Scheduled Completion Date, other than for the reasons specified in Article 11 and 12.2 (Force Majeure or Purchasers Default), the Power Producer or its contractor shall pay to DMRC genuine pre-estimated liquidated damages for the delay in such commencement of supply of Solar Power as per the clause of the DMRC RFS appended as Schedule 7 to this Agreement.

(i) The Purchaser shall ensure that all arrangements and infrastructure for receiving Solar Power beyond the Delivery Point are ready on or prior to the Commercial Operation Date and is maintained in such state in accordance with applicable laws through the Term of the Agreement.

(j) Power Producer shall fulfill all obligations undertaken by it under this Agreement

4.2 Approvals and Permits

Each of the Parties shall assist the other Party in obtaining all necessary Government Approvals, third party approvals and permits including but not limited to those listed in Schedule V hereto and any waivers, approvals or releases required pursuant to any applicable CCR.

4.3 System Acceptance Testing

(a) The Power Producer shall give 15 days advance notice to conduct the testing of the Plant and in the presence of Purchaser's designated representative conduct testing of the SPV Plant in accordance with procedure as approved by DMRC.

(b) If the results of such testing indicate that the System is capable of generating electrical energy (**kWp) for 5 continuous hours using such instruments and meters as have been installed for such purposes, then the Power Producer shall send a written notice to Purchaser to that effect, and the date of successful conducting such tests and injection of Power at Delivery Point shall be the "**Commercial Operation Date.**"

5. System Operations

5.1 The Power Producer as Owner and Operator

The System will be legally and beneficially owned by the Power Producer and will be operated and maintained and, as necessary, repaired by the Power Producer at its sole cost and expense; provided, that any repair or maintenance costs incurred by the Power Producer as a result of Purchaser's negligence or breach of its obligations hereunder shall be reimbursed in full by Purchaser.

Power Producer shall not be responsible for any work done by others on any part of the System/Project authorized by the Purchaser and not authorized in advance by the Power Producer in writing. Power Producer shall not be responsible for any loss, damage, cost or expense arising out of or resulting from improper environmental controls or improper operation or maintenance of the System by Purchaser or anyone instructed to do such work by Purchaser. In the event of a problem with the System, as a result of the Purchaser's actions, for which Power Producer is not responsible as provided in this Agreement, Purchaser may choose and pay Power Producer for diagnosing and correcting the problem at Power Producer or Power Producer's contractors' standard rates and charges then in effect.

To get the benefit of CDM / REC from generating Solar power, Power Producer will be responsible for doing all necessary documentation, payment of fees, and site

compliances etc. for registration with concerned departments. If required, the Developer may appoint a consultant who shall follow up for trading CDM/REC in International Exchanges. All the charges for the same shall be borne by Power Producer. The amount accrued thereof shall be divided in the ratio of 20:40:40 (20% to the consultant and 40% each to the Power Producer and Power Purchaser). In case no consultant is appointed, the accruals shall be divided in the ratio of 60:40 (60% to the Power Producer and balance 40% to Power Purchaser)

5.2 Metering

- (a) The Power Producer shall install the Main Metering System at the Delivery Point for the measurement of electrical energy produced by the System.
- (b) The meter will be read by the Power Producer's personnel on the Metering Date. The authorized representative of the Purchaser shall be present at the time of meter reading. Both the Parties shall sign a joint meter reading report. However, in case the Joint Meter Reading Report is not signed in the first three Business days of any month due to non-availability of the Purchaser's authorized representative, the report signed by the Power Producers shall be considered as Joint Meter Reading Report. The Parties agree that such Joint meter reading Report shall be final and binding on the Parties.
- (c) The Main Metering System at the Delivery Point and any additional meters required by Applicable Law shall be tested, maintained and owned by the Power Producer.
- (d) The Purchaser may, at its own discretion, install a check meter, at its cost, to verify the measurements of the Main Metering System.
- (e) The risk and title to the Solar Power supplied by the Power Producer shall pass to the Purchaser at the Delivery Point.
- (f) The power producer shall obtain the net metering from Discom for this plants installed. The Joint Meter Reading (JMR) will be done after the receipt of net metering permission.

5.3 System Disruptions

(a) Unavailability of Premises

If, for reasons other than the Power Producer's breach of its obligations herein, the Power Producer ceases to have access rights to the Premises as necessary to operate and maintain the System prior to the Expiration Date, then the Power Producer shall be entitled to terminate the Agreement. Purchaser shall pay the Purchase Price to the Power Producer.

(b) Roof Repair and other System Disruptions

In the event that (a) the Purchaser repairs the Premises' roof for any reason not directly related to damage, if any, caused by the System, and such repair requires the partial or complete temporary disassembly or movement of the System, or (b) any act or omission of Purchaser or Purchaser's employees, Affiliates, agents or subcontractors (collectively, a "**Purchaser Act**") results in a disruption or outage in System production, and such events attributable to Purchaser except Force Majeure, then, in either case, Purchaser shall (i) pay the Power Producer for all work required by the Power Producer to disassemble or move the System and (ii) continue to make all payments for the Solar Power during such period of System disruption (for continuous 24 generating hrs.) (the "**Disruption Period**"). For the purpose of calculating Solar Power Payments and lost revenue for such Disruption Period, Solar Power shall be deemed to have been produced at the average rate over the preceding twelve (12) months or, if the disruption occurs within the first twelve (12) months of operation, the average over such period of operation. ("**Deemed Generation**"). Power producer shall inform about the disruption or outage in System production, for reasons attributable to Purchaser in writing with date and time of such occurrence, and purchaser's liability shall start from the date of intimation of disruption or outage in system production, on account of purchaser.

In the event that the Purchaser fails to ensure adequate space for solar equipment to ensure that other structures do not partially or wholly shade any part of the Solar Power Plant and if such shading occurs, the Power Producer may apply for Deemed Generation furnishing the calculation for loss in generation due to such shading supported by the relevant data, which shall be approved by Purchaser within one month of submission failing which the Power Producer shall claim provisional deemed generation till the issue is finally settled.

The developer is responsible for the waterproofing of the roof disturbed/pierced for installation of Rooftop solar Power System for the Whole O&M period (25 Years). To ensure the water proofing a third party inspection jointly with power producer and power purchaser will be conducted annually. The developer should immediately take necessary action to repair any damage to the water proofing. NMRC may impose suitable penalty for the delay caused to resolve the issue.

6. Delivery of Solar Power

6.1 Purchase Requirement

Purchaser agrees to purchase one hundred percent (100%) of the Solar Power generated by the System and made available by the Power Producer to Purchaser at the Delivery Point during each relevant month of the Term. In the event that the Power Purchaser is unable to off take 100% of the electricity generated, when it is generated, then Deemed Generation will apply. Moreover, if any part of the capacity

of the Solar Power Plant is unable to operate at full capacity due to non-availability of load, Deemed Generation shall also apply subjected to furnishing of documentary evidence in support of the same.

6.2 Estimated Annual Production

The annual estimate of Solar Power with respect to the System for any given year as determined pursuant to this Section shall be the "Estimated Annual Production." The Estimated Annual Production for each year of the Initial Term is set forth in Schedule IV hereof.

If power producer is not able meet CUF of minimum 14% in any year subject to acceptance degradation in modules as per tender penalty for lower performance shall be levied as per tender clause 3.27.1. If Power Producer does not pay the penalty, the performance bank guarantee is liable to be forfeited as per tender clause 3.15.6 of Tender.

6.3 Suspension of Delivery

Power Producer shall be entitled to suspend delivery of electricity from the System to the Delivery Point for the purpose of maintaining and repairing the System upon giving one week's advance written notice to the Purchaser, except in the case of emergency repairs. Such suspension of service shall not constitute a breach of this Agreement, provided that the Power Producer shall use commercially reasonable efforts to minimize any interruption in service to the Purchaser. However, any preventive maintenance shall be done only during the period when Plant is not generating.

6.4 Title to the System

Throughout the duration of the Agreement, the Power Producer shall be the legal and beneficial owner of the System at all times, and the System shall remain the personal property of the Power Producer and shall not attach to or be deemed a part of, or fixture to, the Premises. .

Purchaser covenants that it will use its best efforts to place all parties having an interest in or lien or encumbrance upon the real property comprising the Premises on notice of the ownership of the System and the legal status the System as the personal property of the Power Producer. If there is any mortgage or other security interest created or granted upon the Premises which could reasonably be construed as attaching to the System as a fixture of the Premises, Purchaser shall procure, at the Power Producer's request, a release from such lien holders.

7. Tariff and Payment

7.1 Consideration

Purchaser shall pay to the Power Producer a monthly payment (the “**Solar Power Payment**”) for the Solar Power generated by the System as per the Metering clause 5.2 (b) above during each calendar month of the Term equal to the product of the Actual Monthly Production as recorded in Joint Meter Reading Report for the System for the relevant month multiplied by the Tariff irrespective of (i) whether any or all units of Solar Power has been drawn, consumed or utilized by Purchaser and/or (ii) whether any Solar Power has been injected, whether inadvertently or otherwise, into the grid of the Distribution Utility.

The Power Producer will bill the Purchaser for each kWh metered as above at the Delivery Point, at the Tariff prevailing at that point of time.

In the first three years from the Commercial Operation Date, the Tariff will be equal to **Rs. ** per kWh**

For the sake of simplicity, the second year shall begin from the first date of the month following completion of one year from the Commercial Operation Date so as to maintain a monthly billing cycle. Schedule II provides a detailed year on year tariff schedule.

7.2 Invoice

The Power Producer shall invoice Purchaser on the first day of each month (each, an “**Invoice Date**”), commencing on the first Invoice Date to occur after the Commercial Operation Date, for the Solar Power Payment in respect of the immediately preceding month. The last invoice shall include production only through the Expiration Date of this Agreement.

7.3 The Invoice to the Purchaser shall include:

- (a) The Solar Power calculations for the relevant billing period;
- (b) Supporting data, documents and calculations in accordance with this Agreement;

7.4 Time of Payment

Purchaser shall pay all amounts due hereunder within Thirty (30) days after the date of the receipt of the invoice in Purchaser’s office (“**Due Date**”).

7.5 Method of Payment

Purchaser shall make all payments under the Agreement by cheque or electronic funds transfer in immediately available funds to the account designated by the Power

Producer from time to time. All payments made hereunder shall be non-refundable, subject to the applicable tax deduction at source, and be made free and clear of any other tax, levy, assessment, duties or other charges and not subject to reduction, set-off, or adjustment of any kind. If the Purchaser deducts any tax at source, the Purchaser will issue a tax credit certificate as per law.

7.6 Late Payment

In case payment of any Invoice is delayed by the Purchaser beyond its Due Date, a late payment surcharge shall be payable by Purchaser to the Power Producer at the rate of 1% per month ("**Late Payment Surcharge**") calculated on the amount of outstanding payment, calculated on a day to day basis for each day of the delay, compounded on monthly rests. Late Payment Surcharge shall be claimed by the Power Producer through its subsequent Invoice.

7.7 Disputed Payments

In the event that the Purchaser disputes an Invoice, it shall give notice of such a dispute within 15 days of receiving the Invoice setting out details of the disputed amount. The Purchaser shall pay by the Due Date 100% of any undisputed amount and in case the invoice is disputed, the Purchaser shall pay an amount based on average consumption of last three consecutive undisputed Invoices. Amount so recovered shall be subject to final adjustment on resolution of the dispute. Thereafter, the Parties shall discuss and try to resolve the disputed amount within a week of receipt of such notice of dispute. If the Parties resolve the dispute an appropriate adjustment shall be made in the next Invoice. If the dispute has not been resolved by the date of the next Invoice the dispute shall be referred to a committee of one member from each of Purchaser and Power Producer. If the dispute is still not resolved by the next following Invoice it shall be referred to Arbitration.

7.8 Not Used.

7.9 Change in Law:

- (a) For the purpose of this Section 7.9, the term "Change in law" shall mean the occurrence of any of the following events after the Bid due date, resulting into any additional recurring / non-recurring expenditure by the Power Producer or any income to the Power Producer:
- (i) the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law; or
 - (ii) a change in the interpretation of any Law by any Governmental Authority having the legal power to interpret or apply such Law, or any competent court; or

- (iii) the imposition of a requirement for obtaining any Government Approvals which was not required earlier; or
- (iv) a change in the terms and conditions prescribed for obtaining any Government Approvals or the inclusion of any new terms or conditions for obtaining such Government Approvals; or
- (v) any introduction of any tax made applicable for supply of power by the Power Producer as per the terms of this Agreement. Any benefit due to change in tax on the sale of solar energy shall be passed on to Purchaser.
- (vi) However change in the rate of any existing tax will not be considered a change in law. Any risk of change of tax rate whatsoever related to the work lies with the power producer.
- (vii) Any benefit arising due to change in above para (i) to (vi) shall be passed on to the purchaser.

But shall not include any change in any withholding tax on income or dividends distributed to the shareholders of the Power Producer.

(b) Application and Principles for computing impact of Change in Law

While determining the consequence of Change in Law under this Article 7.9, the Parties shall have due regard to the principle that the purpose of compensating the Party affected by such Change in Law, is to restore through monthly bill payment, to the extent contemplated in this Article 7.9, the affected Party to the same economic position as if such Change in Law has not occurred and such impact shall be mutually decided.

(c) Solar Power Payment Adjustment Payment on account of Change in Law Subject to provisions mentioned above, the adjustment in Solar Power Payment shall be effective from:

- (i) The date of adoption, promulgation, amendment, re-enactment or repeal of the Law or Change in Law; or
- (ii) The date of order/judgment of the competent court or tribunal or Governmental Authority, if the Change in Law is on account of a change in interpretation of Law.

8. General Covenants

8.1 Power Producer's Covenants

The Power Producer covenants and agrees to the following:

- (a) **Notice of Damage or Emergency:** The Power Producer shall (a) promptly notify Purchaser if it becomes aware of any damage to or loss of the use of the System or that could reasonably be expected to adversely affect the System, (b) immediately notify Purchaser once it becomes aware of any event or circumstance that poses an imminent risk to human health, the environment, the System or the Premises.

- (b) **System Condition**: The Power Producer shall take all actions reasonably necessary to ensure that the System is capable of providing Solar Power at a commercially reasonable continuous rate. Subject to there being no Purchaser Default, the Power Producer shall provide 24X7 onsite / offsite monitoring and maintenance of the System throughout the period of this agreement at no additional cost
- (c) The System shall meet minimum guaranteed generation with Performance Ratio (PR) at the time of commissioning and related Capacity Utilization Factor (CUF) as per the daily normalized irradiance levels of the location during the O&M period. PR shall be minimum of 75% at the time of inspection for initial Project acceptance.
- (d) **Governmental Approvals**: While providing the Installation Work, Solar Power and System Operations, the Power Producer shall obtain and maintain and secure all Governmental Approvals required to be obtained and maintained and secured by the Power Producer and to enable the Power Producer to perform such obligations.
- (e) The interconnection of the rooftop solar system with the network of the distribution licensee shall be made as per the technical standards for connectivity of distributed generated resources regulations as may be notified by the competent authority. The interconnection of the rooftop solar system shall be as per the contracted load and/or respective voltage level applicable to the Purchaser as per the provisions of the guidelines issued by the competent authority.
- (f) **Health and Safety**: The Power Producer shall take all necessary and reasonable safety precautions with respect to providing the Installation Work, Solar Power, and System Operations that shall comply with all Applicable Laws pertaining to the health and safety of persons and real and personal property.

8.2 Power Producer's Representatives

During the subsistence of this Agreement, the Power Producer undertakes to respond to all questions, concerns and complaints of the Purchaser regarding the System in a prompt and efficient manner. The Power Producer designates the following individual as its representative pertaining to performance of this Agreement till the Commercial Operation Date:

Name:

Telephone:

E-mail:

The Power Producer designates the following individual as its representative and primary point of contact pertaining to performance of this Agreement following the Commercial Operation Date till termination:

Name: _____ – Project Manager

Telephone: +91 _____

E-mail: _____

8.3 Purchaser's Covenants

Purchaser covenants and agrees to the following:

(a) **Notice of Damage or Emergency:** Purchaser shall (a) promptly notify the Power Producer if it becomes aware of any damage to or loss of the use of the System or that could reasonably be expected to adversely affect the System; (b) immediately notify the Power Producer once it becomes aware of any event or circumstance that poses an imminent risk to human health, the environment, the System or the Premises.

(b) **Not Used.**

(c) **Consents and Approvals:** Purchaser shall ensure that any authorizations required of Purchaser under this Agreement, including those required for installation of System at the Premises and to draw/consume Solar Power, are provided in a timely manner. The Purchaser shall cooperate with the Power Producer to obtain such approvals, permits, rebates or other financial incentives.

(d) **Access to Premises, Grant of License:** Purchaser hereby grants to the Power Producer a license co-terminus with the Term, containing all the rights necessary for the Power Producer to use and occupy portions of the Premises for the installation, operation and maintenance of the System pursuant to the terms of this Agreement, including ingress and egress rights to the Premises for the Power Producer and its employees, agents, contractors and subcontractors and access to electrical panels and conduits to interconnect or disconnect the System with the Premises' electrical wiring with the consent and approval of the Purchaser's authorized representative identified by the Purchaser.

(e) **Security:** Purchaser shall be responsible for maintaining the physical security of the Premises. Security and Insurance of Rooftop solar PV System and all of its components have to be maintained by Power Producer. Purchaser will not conduct activities on, in or about the Premises that have a reasonable likelihood of causing damage, impairment or otherwise adversely affecting the System.

(f) Regardless of whether Purchaser is owner of the Premises or leases the Premises from a landlord, Purchaser hereby covenants that (a) the Power Producer shall have access to the Premises and System during the Term of

this Agreement and for so long as needed after termination to remove the System pursuant to the applicable provisions herein, and (b) neither Purchaser nor Purchaser's landlord will interfere or handle any of the Power Producer's equipment or the System without written authorization from the Power Producer.

- (g) **Temporary storage space during installation or removal:** Purchaser shall provide sufficient space at the Premises for the temporary storage and staging of tools, materials and equipment and for the parking of construction crew vehicles and temporary construction trailers and facilities reasonably necessary during the Installation Work, System Operations or System removal, and access for rigging and material handling.
- (h) **Sunlight Easements:** Purchaser will take all reasonable actions as necessary to prevent other buildings, structures or flora from overshadowing or otherwise blocking access of sunlight to the System, including but not limited to such actions as may be reasonably necessary to obtain a solar access easement for such purpose.
- (i) **Evacuation** – Purchaser shall off take 100% of the Solar Power generated from the Delivery Point, and pay all invoices raised by the Power Producer under this Agreement by the Due Date and pay interest on delayed payments, if any, as per this Agreement.
- (j) **Water** – Power Producer shall arrange water, as per the requirements of the Power Producer, for periodic cleaning of the solar panels. If water is available with NMRC, the raw water connection point may be provided by NMRC at site on chargeable basis. Power Producer will obtain water by providing and laying pipes etc, from nearest water connection point made available.
- (k) **Auxiliary Power** – The Purchaser shall provide sufficient auxiliary power to the Power Producer for the maintenance and operation of its System, if available and possible, at the rate it is paying to the DISCOM.

9. Representations & Warranties

9.1 Representations and Warranties Relating to Agreement Validity

In addition to any other representations and warranties contained in the Agreement, each Party represents and warrants to the other that:

- (a) It is duly organized and validly existing and in good standing in the jurisdiction of its incorporation;
- (b) It has the full right and authority to enter into, execute, deliver, and perform its obligations under the Agreement;

- (c) It has taken all requisite corporate or other action to approve the execution, delivery, and performance of the Agreement;
- (d) The Agreement constitutes its legal, valid and binding obligation enforceable against such Party in accordance with its terms;
- (e) There is no litigation, action, proceeding or investigation pending or, to the best of its knowledge, threatened before any court or other Governmental Authority by, against, affecting or involving any of its business or assets that could reasonably be expected to adversely affect its ability to carry out the transactions contemplated herein; and
- (f) Its execution and performance of the Agreement and the transactions contemplated hereby do not constitute a breach of any term or provision of, or a default under, (i) any contract or agreement to which it or any of its Affiliates is a party or by which it or any of its Affiliates or its or their property is bound, (ii) its organizational documents, or (iii) any Applicable Laws.

9.2 Representations Regarding Security Interest

Purchaser has been advised that part of the collateral securing the financial arrangements for the System may be the granting of a first priority perfected security interest (the “**Security Interest**”) in the System to a Financing Party. Alternatively, the Power Producer may assign all its rights and liabilities w.r.to system under this Agreement to a Financing Party under intimation to the Purchaser, such that the Financing Party becomes the owner of the System. In connection therewith, Purchaser represents and warrants as follows:

- (a) Purchaser is aware of no existing lease, mortgage, security interest or other interest in or lien upon the Premises that could attach to the System as an interest adverse to the Power Producer’s Financing Party’s Security Interest therein.
- (b) Purchaser shall extend all co-operation necessary to the extent required to enable the Power Producer to assign its rights and liabilities to a Financing Party, in the event the Power Producer chooses to do so.

Any Financing Party shall be an intended third-party beneficiary of this Section 9.2.

10. Taxes and Governmental Fees

10.1 Purchaser Obligations

Purchaser shall reimburse and pay for any taxes, fees or charges imposed or authorized by any Governmental Authority and paid by the Power Producer due to the Power Producer’s sale of the Solar Power to Purchaser (other than income taxes imposed upon the Power Producer) pursuant to clause 7.9. The

Power Producer shall notify Purchaser in writing with a detailed statement of such amounts, which shall be invoiced by the Power Producer and payable by Purchaser. Purchaser shall timely report, make filings for, and pay any and all sales, use, income or other taxes, and any other amounts assessed against it due to its purchase of the Solar Power. This Section 10.1 excludes taxes specified in Section 10.2.

10.2 Power Producer Obligations

Subject to Section 10.1 above, the Power Producer shall be responsible for all income taxes and any and all franchise fees or similar fees assessed against it due to its ownership of the System. The Power Producer shall not be obligated for any taxes payable by or assessed against Purchaser based on or related to Purchaser's overall income or revenues except for any reduction in the taxes when the developer shall reimburse any amount accrued because of reduction in taxes.

11. Force Majeure

11.1 Definition

"Force Majeure Event" means any act or event that prevents the affected Party from performing its obligations in accordance with the Agreement, if such act or event is beyond the reasonable control of the affected Party and such Party had been unable to overcome such act or event with the exercise of due diligence (including the expenditure of reasonable sums). Subject to the foregoing conditions, "Force Majeure Event" shall include without limitation the following acts or events: (i) natural phenomena, such as storms, hurricanes, floods, lightning, volcanic eruptions and earthquakes; (ii) explosions or fires arising from lightning or other causes unrelated to the acts or omissions of the Party seeking to be excused from performance; (iii) acts of war or public disorders, civil disturbances, riots, insurrection, sabotage, epidemic, terrorist acts, or rebellion; - A Force Majeure Event shall not be based on the economic hardship of either Party.

11.2 Excused Performance

Except as otherwise specifically provided in the Agreement, neither Party shall be considered in breach of the Agreement or liable for any delay or failure to comply with the Agreement (other than the failure to pay amounts due hereunder), if and to the extent that such delay or failure is attributable to the occurrence of a Force Majeure Event; provided that the Party claiming relief under this Section 11 shall immediately (i) notify the other Party in writing of the existence of the Force Majeure Event, (ii) exercise all reasonable efforts necessary to minimize delay caused by such Force Majeure Event, (iii) notify the other Party in writing of the cessation or termination of said Force Majeure Event and (iv) resume performance of its obligations hereunder as soon as practicable thereafter; provided, however, that Purchaser shall not be excused from making any payments and paying any unpaid

amounts due in respect of Solar Power delivered to Purchaser prior to the Force Majeure Event performance interruption.

11.3 Termination as a Consequence of Force Majeure Event

If a Force Majeure Event shall have occurred that has affected the Power Producer's performance of its obligations hereunder and that has continued for a continuous period of one hundred eighty (180) days, then Purchaser shall be entitled to terminate the Agreement upon ninety (90) days' prior written notice to the Power Producer. If at the end of such ninety (90) day period such Force Majeure Event shall still continue, the Agreement shall automatically terminate. Upon such termination for a Force Majeure Event, neither Party shall have any liability to the other (other than any such liabilities that have accrued prior to such termination), and the provisions of Section 3.2 (*Purchase Option*) shall be inapplicable.

12. Default

12.1 Power Producer Defaults and Purchaser Remedies

(a)**Power Producer Defaults:** The following events shall be defaults with respect to the Power Producer (each, a "**Power Producer Default**"):

- (i) An Insolvency Event shall have occurred with respect to the Power Producer;
- (ii) Failure to achieve Commissioning of the System within one (1) year of the Effective Date; and
- (iii) The Power Producer breaches any material term of the Agreement and (A) if such breach can be cured within sixty (60) days after Purchaser's written notice of such breach and the Power Producer fails to cure the same, or (B) the Power Producer fails to commence and pursue a cure within such sixty (60) days period if a longer cure period is needed.

(b)**Purchaser's Remedies:**

- (i) If a Power Producer Default described in Section 12.1(a) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to Section 13, Purchaser shall have a right to deliver a notice of its intention to terminate this Agreement ("**Purchaser Preliminary Default Notice**"), which shall specify in reasonable detail, the circumstances giving rise to the issue of such notice.
- (ii) Upon the occurrence and continuation of Power Producer Default and the failure by the Power Producer to cure such default within the applicable cure period specified in this Article, the Lenders shall have the right to seek substitution of the Power Producer by a Selectee for the residual period of this Agreement for the purpose of performing the obligations of the Power Producer. Such substitution of the Power Producer by a Selectee shall be as per the procedure prescribed in Schedule VI to this

Agreement and prior approval of DMRC. Selectee as aforesaid shall have the required qualification and experience as prescribed under the **Contract:-NE/SPV-01 (R)**dated.....

- (iii) In the event the Lender's total debt obligations have been completely satisfied at the time of issue of Purchaser's Preliminary Default Notice and upon the occurrence and continuation of Power Producer Default and the failure by the Power Producer to cure such default within the applicable cure period specified in this Article, the Purchaser may terminate this Agreement by serving a fifteen (15) days notice to the Power Producer ("**Purchaser Termination Notice**").
- (iv) Following the issue of Purchaser Preliminary Default Notice, it shall be the responsibility of the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Power Producer's Default having regard to all the circumstances. If the Power Producer Default is not cured within a period of sixty (60) days of the issue of Purchaser Preliminary Default Notice or any other such period mutually agreed upon by the Parties, the Purchaser shall have the right to terminate this Agreement by issuing a Purchaser Termination Notice.
- (v) Upon the delivery of the Purchaser Termination Notice, this Agreement shall stand terminated. The Power Producer shall have the liability to make payment within sixty (60) days from the date of Purchaser Termination Notice toward compensation to Purchaser equivalent to the difference between the Tariff and the grid rate notified by the relevant Government Authority for that point in time multiplied by the estimated Solar Power generated for a period of two (2) years following the termination, considered on normative capacity utilization factor.
- (vi) Save as otherwise provided in this agreement, Power Producer will be responsible for all liabilities and obligations (including contingent liabilities) in connection with the ownership, operation, maintenance or repair of the facility and the site prior to the termination of this agreement. Purchaser shall be responsible for all liabilities and obligations (including contingent liabilities) in respect of the same arising after the termination of this agreement save to the extent that these liabilities and obligations were caused by or attributable to a breach of power producer's obligations under this agreement prior to the date of termination of this agreement. Power producer shall use its reasonable endeavors to mitigate the amount of the costs and expenses relating to liabilities and obligations (including contingent liabilities) in connection with the ownership, operation, maintenance or repair of the facility and the site and incurred between the termination date and the date on which transfer of the facility and the site to purchaser occurs.

In the event that purchaser is required to settle any of these liabilities or perform obligations with respect to the period prior to termination of this agreement which are necessary in order to comply with prudent utility practice in order to continue to operate the facility and in connections with the site, any cost or expense reasonably incurred in connection therewith shall be subtracted from the Termination amount.

If the Power Producer fails to remove the System from the Premises within one month from the date of termination, the Purchaser shall be entitled to dispose of the System in any manner it deems fit

- (vii) The Power Purchaser may exercise any other remedy it may have at law or equity or under the agreement.

12.2 Purchaser Defaults and Power Producer's Remedies

(a) **Purchaser Default:** The following events shall be defaults with respect to Purchaser (each, a "**Purchaser Default**"):

- (i) An Insolvency Event shall have occurred with respect to Purchaser;
- (ii) Purchaser breaches any material term of the Agreement if (A) such breach can be cured within sixty (60) days after the Power Producer's notice of such breach and Purchaser fails to so cure, or (B) Purchaser fails to commence and pursue said cure within such sixty (60) day period if a longer cure period is needed; and
- (iii) Purchaser fails to pay the Power Producer any undisputed amount or, if the amount is disputed, an amount based on average consumption of last three consecutive undisputed Invoices to the Power Producer under Section 7.7 of this Agreement within sixty (60) days from receipt of notice from the Power Producer of such past due amount.

(b) **Power Producer's Remedies:** If a Purchaser Default described in Sections 12.2(a) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to Section 13, the Power Producer shall be entitled to terminate this Agreement by serving a Sixty (60) days notice and upon such termination, (A) the Power Producer shall be entitled to receive from Purchaser the Purchase Price. The Purchase Price payable shall be the Purchase Price specified in Schedule III that falls on such date. Upon the payment of the Purchase Price, the Power Producer shall cause the title of the System to transfer to the Purchaser; and (B) the Power Producer may exercise any other remedy it may have at law or equity or under the Agreement.

(c) **Not used**

13. Limitations of Liability

- 13.1 Except as expressly provided herein, neither Party shall be liable to the other Party or its Indemnified Persons for any special, punitive, exemplary, indirect, or consequential damages, losses or damages for lost revenue or lost profits, whether foreseeable or not, arising out of, or in connection with the Agreement.
- 13.2 Subject to the provisions of the Agreement, the Power Producer shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the Power Producer, or contractors engaged by the Power producer in connection with the performance of the Agreement shall be under the complete control of the Power Producer and shall not be deemed to be employees, representatives, contractors of the Purchaser. Nothing contained in the Agreement or in any agreement or contract executed by the Power Producer shall be construed to create any contractual relationship between any such employees, representatives or contractors and the Purchaser.
- 13.3 Notwithstanding any liability or obligation that may arise under this Agreement, any loss, damage, liability, payment, obligation or expense which is insured or not or for which the Purchaser can claim compensation under any insurance policy, shall not be charged to or payable by the Purchaser.

14. Assignment

14.1 Assignment by Power Producer

- (a)-This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. The Power Producer may sell, transfer or assign (collectively, an “**Assignment**”) the System and/or the Agreement or any interest therein, to any person including to the Power Producer’s Financing Party as collateral security in connection with any financing of the System, provided that such person agrees in writing to be bound by the terms of this Agreement. The Power Producer shall obtain prior approval of the Purchaser of any Assignment pursuant to this clause. Such person as aforesaid must have the required qualification and experience as prescribed under the **Contract:-NE/SPV-01 (R)**dated.....
- (b) In the event of an Assignment, the Power Producer shall offer its O&M services to the assignee and the Parties may enter into an O&M Agreement in this regard.

14.2 Assignment by Purchaser

Purchaser may assign the Agreement or any interest therein to any Person provided that such Person agrees in writing to be bound by the terms of this Agreement, without the Power Producer’s prior written consent. The Purchaser shall provide prior intimation to the Power Producer of any Assignment pursuant to this clause.

14.3 Notices

Unless otherwise provided in the Agreement, all notices and communications concerning the Agreement shall be in writing and addressed to the Parties at the addresses set forth below:

Power Producer's address and contact details:

(insert entity name)

Purchaser's address and contact details:

14.4 Notice

Unless otherwise provided herein, any notice provided for in the Agreement shall be hand delivered, sent by registered post, or by courier delivery, or transmitted by facsimile and shall be deemed delivered to the addressee or its office when received at the address for notice specified above when hand delivered or sent by courier delivery, upon posting if sent by registered post and upon confirmation of sending when sent by facsimile on the next Business Day.

15. Confidentiality

15.1 Confidentiality Obligation

(a) If the Power Producer provides confidential information, including business plans, strategies, financial information, proprietary, patented, licensed, copyrighted or trademarked information, and/or technical information regarding the financing, design, operation and maintenance of the System ("**Confidential Information**") to Purchaser or, if in the course of performing under the Agreement or negotiating the Agreement Purchaser learns Confidential Information regarding the facilities or plans of the Power Producer, Purchaser shall (a) protect the Confidential Information from disclosure to third parties with the same degree of care accorded its own confidential and proprietary information, and (b) refrain from using such Confidential Information, except in the negotiation and performance of the Agreement. Notwithstanding the above, Purchaser may provide such Confidential Information to its officers, directors, managers, employees and Affiliates (collectively, "**Representatives**"), in each case whose access is reasonably necessary for purposes of the Agreement. Each such recipient of Confidential Information shall be informed by Purchaser of its confidential nature and shall be directed to treat such information confidentially and shall agree to abide by these provisions. Purchaser shall be liable for any breach of this provision by any entity to whom it improperly discloses Confidential Information. All Confidential Information shall remain the property of the Power Producer and shall be returned to it after Purchaser's need for it has expired or upon the request of the Power Producer.

(b) If the Purchaser provides confidential information, including business plans, strategies, financial information, proprietary, patented, licensed, copyrighted or trademarked information, (“**Confidential Information**”) to the Power Producer or, if in the course of performing under the Agreement or negotiating the Agreement the Power Producer learns Confidential Information regarding the facilities or plans of the Purchaser, the Power Producer shall (a) protect the Confidential Information from disclosure to third parties with the same degree of care accorded its own confidential and proprietary information, and (b) refrain from using such Confidential Information, except in the negotiation and performance of the Agreement. Notwithstanding the above, the Power Producer may provide such Confidential Information to its officers, directors, managers, employees and Affiliates (collectively, “**Representatives**”), in each case whose access is reasonably necessary for purposes of the Agreement. Each such recipient of Confidential Information shall be informed by the Power Producer of its confidential nature and shall be directed to treat such information confidentially and shall agree to abide by these provisions. The Power Producer shall be liable for any breach of this provision by any entity to whom it improperly discloses Confidential Information. All Confidential Information shall remain the property of the Purchaser and shall be returned to it after the Power Producer’s need for it has expired or upon the request of the Purchaser.

15.2 Permitted Disclosures

Notwithstanding any other provision contained herein, neither Party shall be required to hold confidential any information that:

- (a) becomes publicly available other than through the receiving Party;
- (b) is required to be disclosed under Applicable Law or pursuant to a validly issued notice or required filing, but a receiving Party subject to any such requirement shall promptly notify the disclosing Party of such requirement;
- (c) Is independently developed by the receiving Party; or
- (d) Becomes available to the receiving Party without restriction from a third party under no obligation of confidentiality.

16. Indemnity

16.1 Power Producer’s Indemnity

Subject to Section 13, the Power Producer agrees that it shall indemnify and hold harmless Purchaser and its members, officers, employees, students, casual laborers, persons permitted to run any business or service, such as canteens, stores, photocopy units, banks, post office, courier service, hospital and to any lawful visitors (collectively, the “**Purchaser Indemnified Parties**”) from and against any and all Losses incurred by the Purchaser Indemnified Parties to the extent arising from or out of the following any claim for or arising out of any injury to or death of any Person or loss or damage to property of any Person to the extent arising out of the Power Producer’s negligence or willful misconduct. The Power Producer shall not,

however, be required to reimburse or indemnify any Purchaser Indemnified Party for any Loss to the extent such Loss is due to the negligence or willful misconduct of any Purchaser Indemnified Party.

16.2 Purchaser's Indemnity

Subject to Section 13, Purchaser agrees that it shall indemnify, defend and hold harmless the Power Producer, its permitted successors and assigns and their respective directors, officers, employees, contractors, sub-contractors, and agents (collectively, the "**Power Producer Indemnified Parties**") from and against any and all Losses incurred by the Power Producer Indemnified Parties to the extent arising from or out of any claim for or arising out of any injury to or death of any Person or loss or damage to property of any Person to the extent arising out of Purchaser's negligence or willful misconduct. Purchaser shall not, however, be required to reimburse or indemnify any Power Producer Indemnified Party for any Loss to the extent such Loss is due to the negligence or willful misconduct of any Power Producer Indemnified Party.

16.3 The both the parties hereby indemnify each other against any loss, damage or liabilities (including attorneys fees) arising as a result of any act of omission or commission on either party's part or on part of their personnel or in respect of non observance of any statutory requirements or legal dues of any nature which relates to this agreement.

17. Miscellaneous

17.1 Amendments

This Agreement may only be amended, modified or supplemented by an instrument in writing executed by duly authorized representatives of the Power Producer and Purchaser.

17.2 Goodwill and Publicity

Neither Party shall use any name, trade name, service mark or trademark of the other Party in any promotional or advertising material without the prior written consent of such other Party. The Parties shall coordinate and cooperate with each other when making public announcements related to the execution and existence of this Agreement, and each Party shall have the right to promptly review, comment upon and approve any publicity materials, press releases and other public statements by the other Party that refer to, or that describe any aspect of, this Agreement; provided that no such publicity releases or other public statements (except for filings or other statements or releases as may be required by applicable law) shall be made by either Party without the prior written consent of the other Party. Without limiting the generality of the foregoing and whether or not the consent of the other Party is required or obtained, all public statements must accurately reflect the rights and obligations of the Parties under this Agreement.

17.3 Industry Standards

Except as otherwise set forth herein, for the purpose of the Agreement the normal standards of performance within the solar photovoltaic power generation industry in the relevant market shall be the measure of whether a Party's performance is reasonable and timely. Unless expressly defined herein, words having well-known technical or trade meanings shall be so construed.

17.4 Cumulative Remedies

Except as set forth to the contrary herein, any right or remedy of the Power Producer or Purchaser shall be cumulative and without prejudice to any other right or remedy.

17.5 Sovereign Immunity

To the extent permitted by Applicable Law, Purchaser hereby waives any defense of sovereign immunity that Purchaser might otherwise have in connection with any action taken by the Power Producer to enforce its rights against Purchaser under this Agreement.

17.6 No Waiver

The failure of the Power Producer or Purchaser to enforce any of the provisions of the Agreement, or the waiver thereof, shall not be construed as a general waiver or relinquishment on its part of any such provision, in any other instance or of any other provision in any instance.

17.7 Survival

The obligations under Sections 3.2 (*Purchase Option*), Section 8.1(d) (*Power Producer Covenant*), Sections 8.2(d), (e), (f) and (g) (*Purchaser Covenants*), Section 9.3 (*Exclusion of Warranties*), Section 9 (*Taxes and Governmental Fees*), Section 12 (*Limitation of Liability*), Section 15 (*Notices*), Section 16 (*Confidentiality*), Section 18 (*Miscellaneous*), or pursuant to other provisions of this Agreement that, by their nature and context, are intended to survive termination of this Agreement shall survive the expiration or termination of this Agreement for any reason.

17.8 Governing Law & Jurisdiction

- (a) This Agreement shall be governed by and construed in accordance with the laws of India. The Parties agree that the courts in Delhi shall have jurisdiction over any action or proceeding arising under the Agreement.
- (b) In the event of any Dispute, difference of opinion or dispute or claim arising out of or relating to this agreement or breach, termination or the invalidity thereof, shall firstly be attempted to be settled by conciliation.
- (c) All Disputes relating to this Agreement or any issue whether arising during or after the completion thereof or any matter directly or indirectly connected with this agreement shall in the first place be referred to a sole conciliator appointed/nominated by GM /Civil Engineer/Director of Purchaser on receipt

of such requests from either party. The conciliator shall make the settlement agreement after the Parties reach agreement and shall give an authenticated copy thereof to each of the Parties.

- (d) The settlement agreement shall be final and binding on the Parties. The settlement agreement shall have the same status and effect of an arbitration award. The views expressed or the suggestions made or the admissions made by either Party in the course of conciliation proceedings shall not be introduced as evidence in any arbitration proceedings.
- (e) Any Dispute that cannot be settled through conciliation procedure shall be referred to arbitration in accordance with the procedure given below. The Parties agree to comply with the awards resulting from arbitration and waive their rights to any form of appeal insofar as such waiver can validly be made. Cost of conciliation shall be equally shared by both the parties.
- (f) **Arbitration Procedure:**
 - (i) If the efforts, to resolve all or any of the Disputes through conciliation fail, then such disputes shall be referred to a sole arbitrator if the total value of the claim is up to Rs.5 million; and to a panel of three arbitrators if total value of claims is more than Rs.5 million. For this purpose, Purchaser will make out a panel of engineers with the requisite qualification and professional experience relevant to the field to which the Agreement relates. This panel will be from among serving or retired government employees or of public sector. The Purchaser shall provide a panel of three arbitrators for claims up to Rs.5 million and a panel of five arbitrators for claims of more than Rs.5 million. Power Producer shall choose the sole arbitrator from the panel of three and/or one arbitrator from the panel of five in case three arbitrators are to be appointed. The Purchaser shall also choose one arbitrator from this panel of five and the two so chosen will choose the third arbitrator from the panel only. The arbitrator(s) shall be appointed within a period of 30 days from the date of receipt of written notice/ demand of appointment of arbitrator from either Party.
 - (ii) The venue of such arbitration shall be Gautam Budh Nagar, Noida, U.P. The arbitral award shall be binding on both Parties. The cost of arbitration shall be equally shared by both Parties.
 - (iii) The sole arbitrator or the Arbitral Tribunal shall give his award within 12 months from the date of his entering on the reference or within extended time, as the parties may consent for the same, as the case may be on all the matters referred to him and shall indicate his/their finding, along with sum awarded, separately on each individual item of dispute.
In case the matter is referred to arbitral tribunal for adjudication and the views of two arbitrators differs on the issue then view of presiding arbitrator shall prevail.

The demand of arbitration shall specify the matters which are in question or subject of the dispute or differences as also the amount of claim item wise, together with counter claims or set off shall be referred to arbitration and other matters shall not be included in the reference. The arbitration proceedings shall be governed by the Indian Arbitration and Conciliation Act, 1996, as amended from time to time including provisions in force at the time the reference is made.

- (g) During the dispute resolution period, both the Parties shall continue to perform their respective obligations as per provisions of the Agreement.
- (h) This Section 18 is severable from the rest of this Agreement and shall remain in effect even if this Agreement is terminated for any reason.

17.9 Severability

If any term, covenant or condition in the Agreement shall, to any extent, be invalid or unenforceable in any respect under Applicable Law, the remainder of the Agreement shall not be affected thereby, and each term, covenant or condition of the Agreement shall be valid and enforceable to the fullest extent permitted by Applicable Law and, if appropriate, such invalid or unenforceable provision shall be modified or replaced to give effect to the underlying intent of the Parties and to the intended economic benefits of the Parties.

17.10 Successors and Assigns

This Agreement and the rights and obligations under the Agreement shall be binding upon and shall inure to the benefit of the Power Producer and Purchaser and their respective successors and permitted assigns.

17.11 Counterparts

This Agreement may be executed in one or more counterparts, all of which taken together shall constitute one and the same instrument

17.12 Independent Service Provider

This Agreement is on a principal to principal basis between the Parties hereto. Nothing contained in this Agreement shall be construed or deemed to create any association, partnership or joint venture or employer-employee relationship or principal-agent relationship in any manner whatsoever between the Parties.

17.13 Non-Exclusive Agreement

This Agreement is on non-exclusive basis. The Purchaser is free to engage any other service provider/s or may entrust services similar to those provided by the Power Producer under this Agreement to any other person/s, provided the Power Producer's rights under this Agreement are not affected in any manner.

17.14 Insurance

The Power Producer shall maintain at its own costs, throughout the tenure of this Agreement and any extensions thereof all mandatory insurance coverage for adequate amount including but not restricted to, comprehensive general liability insurance covering the System and accidental losses, bodily harm, injury, death of all individuals employed/assigned by the Power Producer to perform the services required under this Agreement.

17.15 Sale or Transfer of Premises

- (a) In the event the Purchaser sells or transfers the Premises or the building housing the System, it shall give at least 90 days prior notice to the Power Producer and will ensure that this Agreement is transferred /novated to transferee, without any interruption in payments. The Purchaser shall also ensure that a clause to this effect, to the satisfaction of the Power Producer, is incorporated in the transfer documents between itself and the transferee. The Purchaser shall not sell or otherwise transfer the Premises if the transferee fails to accept the terms and conditions of this Agreement for the remainder of the Term.
- (b) If either the Purchaser or the Power Producer merges with any other entity, the terms of this Agreement shall continue to be binding upon the merged entity

17.16 Entire Agreement

This Agreement constitutes the entire agreement between the Parties hereto with respect to the subject matter of this Agreement and supersedes all prior agreements and undertakings, written or oral, with respect to the subject matter hereof except as otherwise expressly provided herein. The Schedules annexed to this Agreement also form a part of this Agreement.

17.17 Annual accounts reconciliation shall be conducted annually between the power producer and purchaser. The power producer shall maintain proper records (like purchase price, AMC etc.) relating to the plant and submit all such documents to the purchaser in case of effectuation of clause no 3.2.

17.18 Where provision is made for the giving of any notice, certificate, determination, consent or approval by any person that notice, certificate, determination, consent or approval shall be in writing, and the words “notifies”, “certifies”, “determined”, “consent” or “approved” shall be construed accordingly.

IN WITNESS WHEREOF the Parties have caused the Agreement to be duly executed through their duly authorized representatives as of the date set forth above.

FOR AND ON BEHALF OF PURCHASER	FOR AND ON BEHALF OF POWER PRODUCER
Authorised Signatory	Authorised Signatory
WITNESSES	WITNESSES
1. _____ ()	1. _____ ()
2. _____ ()	2. _____ ()

SCHEDULE - I

1. Description of the Premises:

All the piece and parcel of terrace portion of rooftop measuring approximatelysquare feet and having shade free area of approximatelysquare feet situated on building located at----- . It is proposed to install a System of **10000 kWp** capacity on the said premises.

2. Description of the System:

The Power Producer shall install a capacity of 10000 kWpSolar Power Plant on the roof of thebuilding named-----The key features of the system are as follows:

S. No	Parameter	Value
1	System Size	10000 kWp
2	Expected Annual Energy Generation	
3	Module Type	To be finalized during detailed Engineering
4	Inverter Type & Rating	To be finalized during detailed Engineering
5	Electrical Parameter for interconnection	To be finalized during detailed Engineering
6	Mounting type	To be finalized during detailed Engineering
7	Surface Azimuth Angle	To be finalized during detailed Engineering
8	Tilt Angle	To be finalized during detailed Engineering
9	Wind Resistance	To be finalized during detailed Engineering

The Power Producer shall provide an online monitoring system to the Purchaser that will enable easy access to Solar Power information

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Schedule II(Fees)

Following are the details of the Tariff agreed between the Parties:

Purchaser shall pay Power Producer for Solar Power at a rate equal to **INR ____/kWh** as follows.

First Year	
Second Year	
Third Year	
Fourth Year	
Fifth Year	
Sixth Year	
Seventh Year	
Eighth Year	
Ninth Year	
Tenth Year	
Eleventh Year	
Twelfth Year	
Thirteenth Year	
Fourteenth Year	
Fifteenth Year	
Sixteenth Year	
Seventeenth Year	
Eighteenth Year	
Nineteenth Year	
Twentieth Year	
Twenty First Year	
Twenty Second Year	
Twenty Third Year	
Twenty Fourth Year	
Twenty Fifth Year	

The Fee and Payment details are provided in detail under Clause 7 of this Agreement.

Schedule III (Purchase Price)

The Purchase Price with respect to the System under the Agreement shall be calculated as follows:

Initial Cost: - Cost quoted by the bidders or total cost calculated as per Rs6.0 Cr. per MWp whichever is lower. The Depreciation rate is taken as **6.50 % Per Year****

Year of Term (End of Year)	Calendar Year #	% of Initial cost *	Purchase Price in Crores (Rs)
1	2017	93.5 %	
2	2018	87.0 %	
3	2019	80.5 %	
4	2020	74.0 %	
5	2021	67.5 %	
6	2022	61.0 %	
7	2023	54.5 %	
8	2024	48.0 %	
9	2025	41.5 %	
10	2026	35.0 %	
11	2027	28.5 %	
12	2028	22.0 %	
13	2029	15.5 %	
14	2030	9.0 %	
15	2031	2.5%	
16	2032	2.5%	
17	2033	2.5%	
18	2034	2.5%	
19	2035	2.5%	
20	2036	2.5%	
21	2037	2.5%	
22	2038	2.5%	
23	2039	2.5%	
24	2040	2.5%	
25	2041	0.0%	

For the purpose of Section 3.2, the Purchase Price payable shall be the Purchase Price specified in this Schedule that falls on such date before the proposed Purchase Date.

*** The purchase price shall be reduced by the amount of Achievement linked incentive paid to the Power Producer.**

Based on date of signing of PPA.

****Cost as per clause 6.8.1**

Schedule IV
Estimated Annual Production

Estimated Annual Production commencing on the Commercial Operation Date with respect to the System shall be as follows:

Year of Term	Indicative total production (kWh/Year) for 10MWp (Minimum generation based on CUF of 14% as per tender) *
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

*Actual generation may vary as per actual annual irradiation at site

*Degradation of modules as per tender conditions (Clause 14)

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Schedule V

Governmental Approvals

1. To be obtained by the Power Producer

All approvals including approvals/consents required under local regulations, building codes and approvals required from the Distribution Utility etc relating to installation and operation of the System (including the government incentives/subsidies available for the Project) and generation and supply of solar power from the Project.

2. To be obtained by Purchaser

Any authorizations required of Purchaser, including those required for installation of System at the Premises.

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Schedule VI
Substitution Rights of the Lender

1. Substitution of the Power Producer

The Lender may seek to exercise right of substitution by an amendment or novation of the Agreement executed between Power Producer and the Purchaser in favour of the Selectee, The Purchaser and the Power Producer shall cooperate with the Lender to carry out such substitution.

2. Substitution Notice

Upon the occurrence and continuation of Power Producer Default and the failure by the Power Producer to cure such default within the applicable cure period specified in this Article, the Lender, upon receipt of a written advice from the Purchaser confirming such failure, shall be entitled to notify the Parties of the intention of the Lender to substitute the Power Producer by the Selectee for the residual period of this Agreement (the "Substitution Notice").

3. Interim Operation of Project

- (a) On receipt of a Substitution Notice, no further action shall be taken by any Party to terminate this Agreement, except under and in accordance with the terms of this Schedule VI of this Agreement.
- (b) On issue of a Substitution Notice, the Lender shall have the right to request the Purchaser to enter upon and takeover the Project for the interim and till the substitution of the Selectee is complete and to otherwise take all such steps as are necessary for the continued operation and maintenance of the Project, and the Power Producer shall completely cooperate in any such takeover of the Project by the Purchaser.
- (c) If the Purchaser refuses to take over the Project on request by the Lender in accordance with clause 3(b) above, the Power Producer shall have the duty and obligation to continue to operate the Project in accordance with this Agreement till such time as the Selectee is finally substituted.

The Lender and the Purchaser shall, simultaneously have the right to commence the process of substitution of the Power Producer by the Selectee in accordance with these terms, and the Power Producer hereby irrevocably consents to the same.

4. Process of Substitution of Power Producer

- (a) The Lender may, on delivery of a Substitution Notice notify the Purchaser and the Power Producer about the Lender's decision to invite and negotiate, at the cost of the Lender, offers from third parties to act as Selectee, either through private negotiations or public auction and / or a tender process, for the residual period of this

Agreement. Subject to and upon approval of the Purchaser, such Selectee shall be entitled to receive all the rights of the Power Producer and shall undertake all the obligations of the Power Producer under this Agreement and any other Project documents executed between the Power Producer and the Purchaser, in accordance with these terms of substitution.

- (b) Upon the Purchaser approving the Selectee, the Power Producer shall transfer absolutely and irrevocably, the ownership of the Project to such Selectee simultaneously with the amendment or novation of this Agreement and other Project documents executed between the Power Producer and Purchaser in favour of the Selectee.

Site Details of Metro Stations and Depot

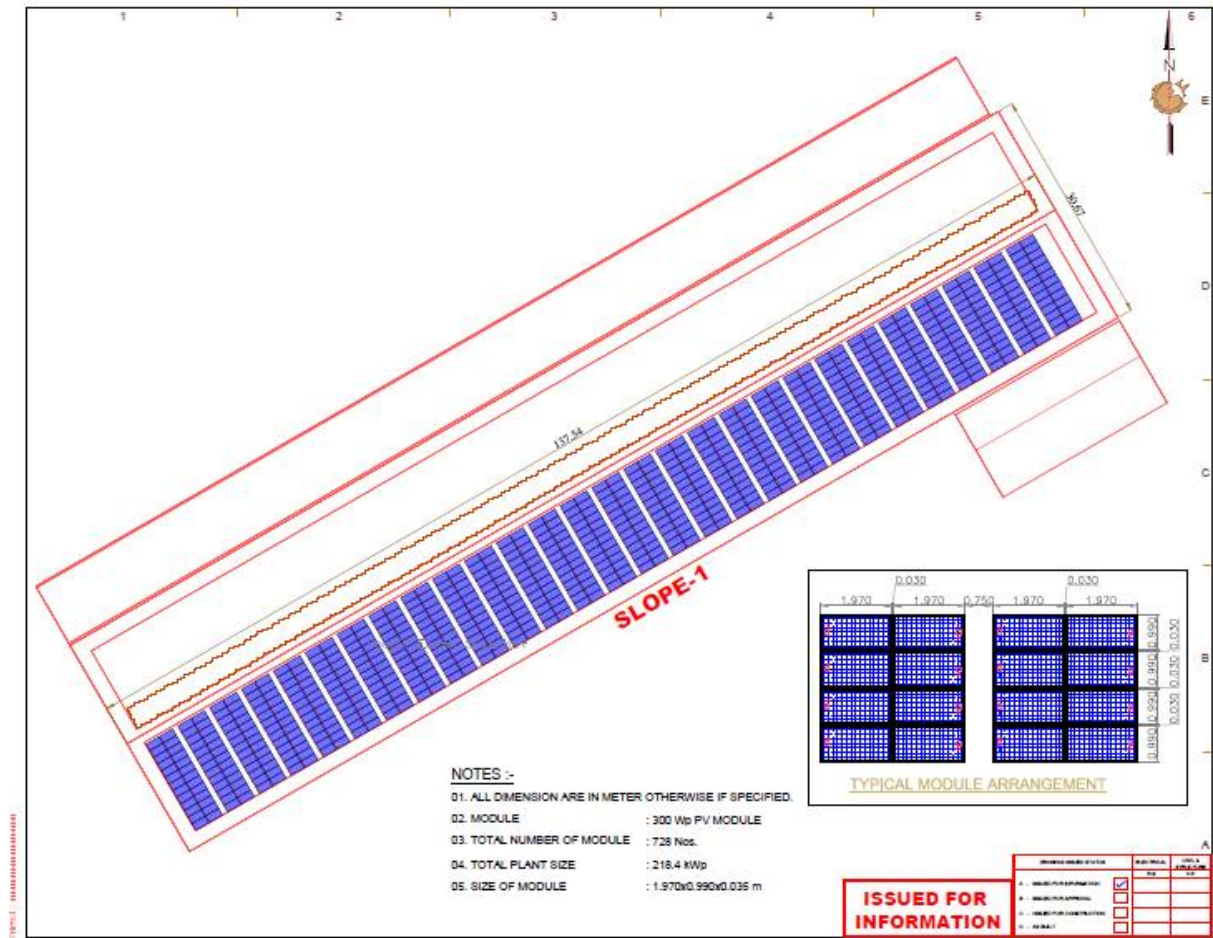
S.No.	Sites of NMRC	Approx. Capacity(kWp)
1	NMRC Depots and Metro stations, adjacent buildings and FOBs.	4000
2	Internal roads of Depots and boundary walls	3000
3	Parking areas and Viaduct	3000
	Approx. Total Capacity	10000 kWp

Tentative Solar PV Plant capacities

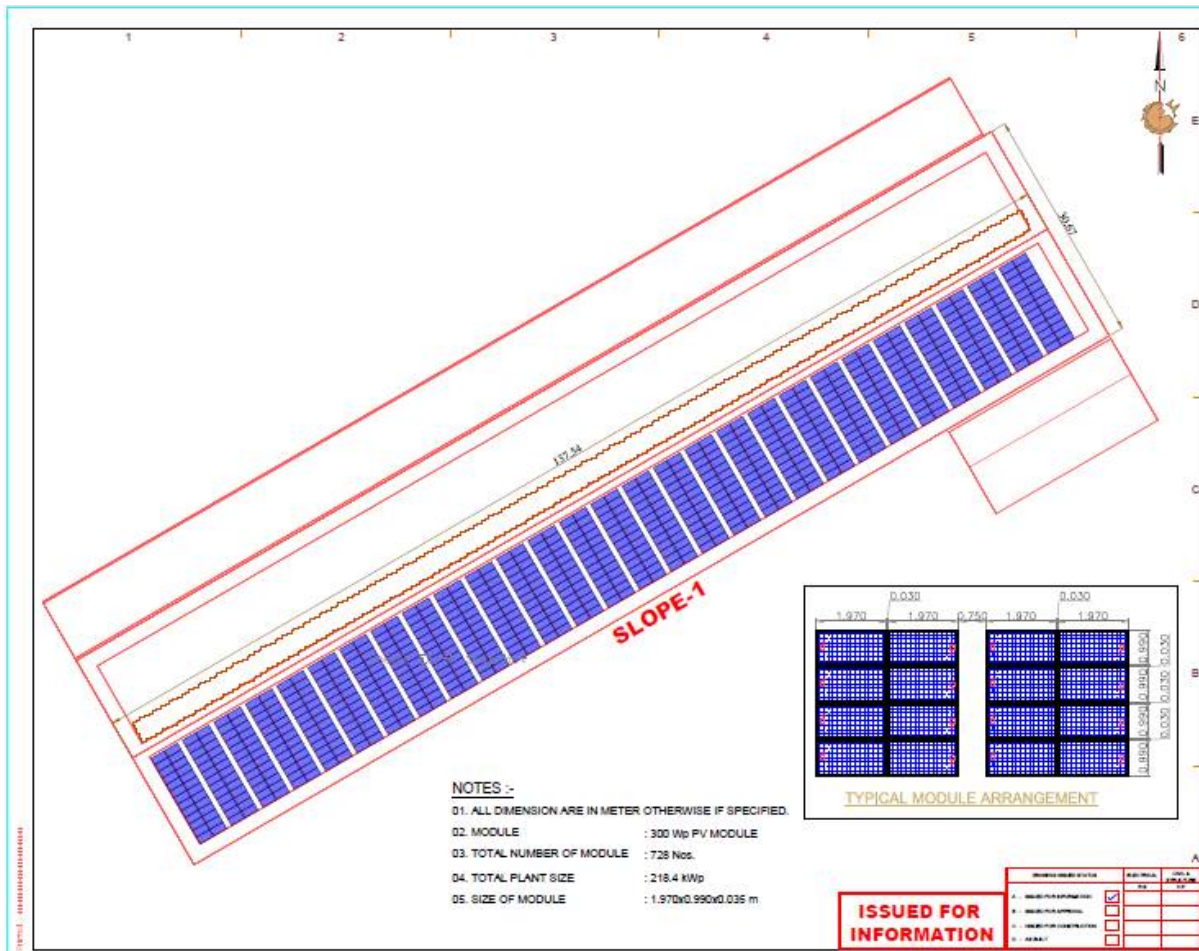
- Locations are tentative and may change during execution
- **FOBs, Parking area shall be at stations and Service roads/ Internal roads shall be within the Depot area. The installations shall be with raised structures fixed on the ground for roads and parkings. For Boundary walls, the structure (brackets) may be mounted on the boundary walls.**

List of Tentative Sites

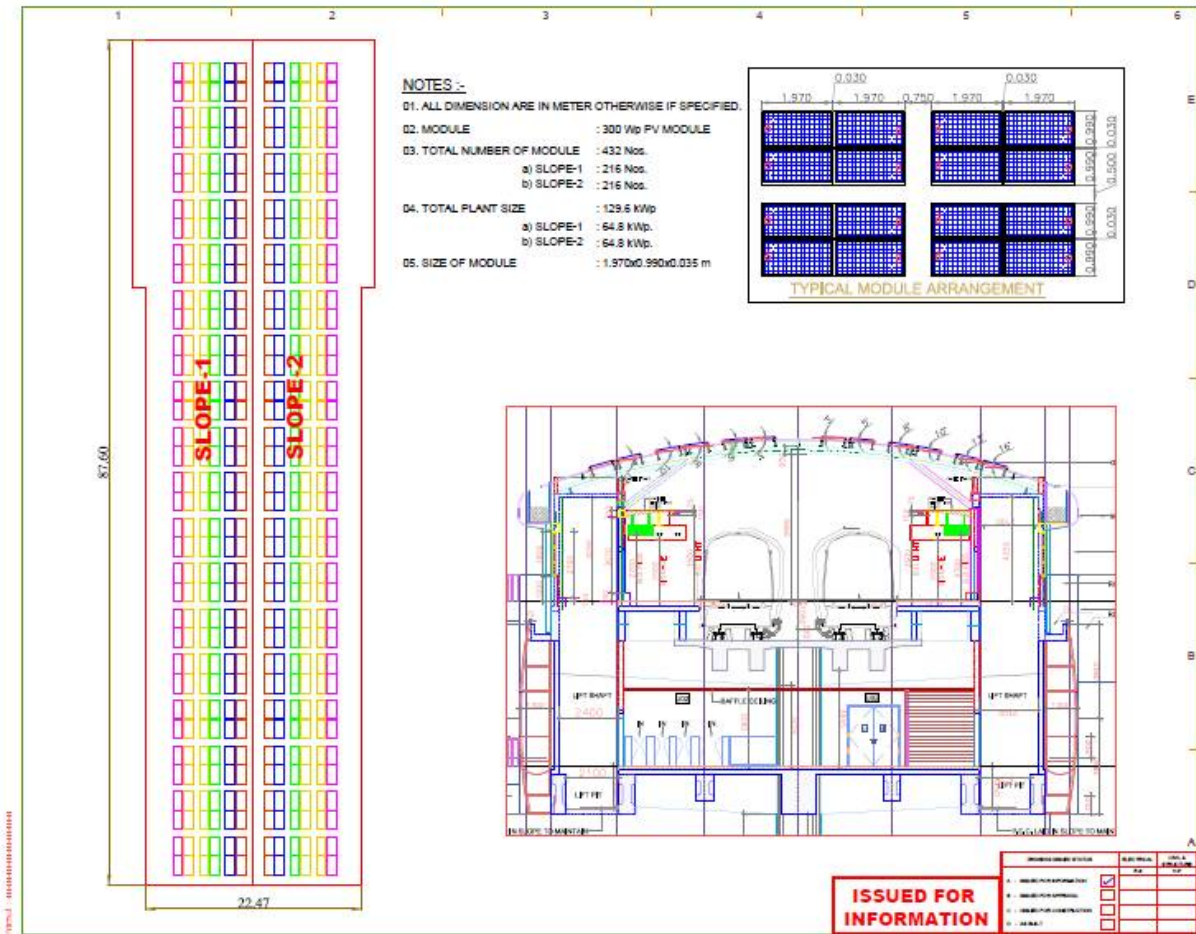
S. No.	Name of station	S. No.	Name of station
1	Sector 71	12	Sector 147
2	Sector 50	13	Sector 153
3	Sector 78	14	Sector 146
4	Sector 101	15	Sector 149
5	Sector 81	16	Knowledge Park
6	Dadri Road	17	PariChowk
7	Noida Sector 83	18	Sector Alpha-1
8	Sector 137	19	Sector Alpha-2
9	Sector 142	20	Delta-1
10	Sector 143	21	Depot Station
11	Sector 144		
RSS (2 Nos.)			
1	Near Sector 148 Station		
2	Near Dadri Station		
Depot (1 No.)			
1	Near Depot Station at Greater Noida		



The capacity and panel layout shown is only indicative and tentative. The successful bidder has to finalise the design as per the requirement, site availability and submit for approval of **DMRC/NMRC**.



The capacity and panel layout shown is only indicative and tentative. The successful bidder has to finalise the design as per the requirement, site availability and submit for approval of DMRC/NMRC.



The capacity and panel layout shown is only indicative and tentative. The successful bidder has to finalise the design as per the requirement, site availability and submit for approval of DMRC/NMRC.

Section-VIII

Procedure and List of Documents to be submitted by successful bidder (“Bidder”) in regard to the incorporation of the Project Company (Power Producer in the PPA)

1. Letter of Allocation (“LOA”) issued by DMRC and Letter of Acceptance given by the Bidder.
2. Memorandum of Understanding or Joint Bidding Agreement submitted by the Bidder /Consortium at the time of bidding.
3. Board resolution(s) of Successful Bidder Company / Companies (“Company”).
 - (a) requesting the DMRC/NMRC to accept the Project Company incorporated by it (the Company) as the entity which shall undertake and perform the obligations and exercise the rights of the Consortium/JV/Successful Bidder under the LOA, including the obligation to enter into the Power Purchase Agreement as the Power Producer pursuant to the LOA for executing the Project.
 - (b) authorizing the Company to invest in the equity of the Project Company. The Board resolution should clearly record the undertaking by the Company in terms of clause 3.5.2 of the contract, extracts of which are given below for convenience of ready reference, that it would at all times maintain equity participation in the Project Company as per the terms of the Contract, which is quoted below for convenience. [Note: in case the Bidder is a Consortium, each of the consortium members should submit its board resolution in the manner as stated in the contract.]

“The aggregate equity share holding of the Successful Bidder Company (Individual or in case of JV/JVA) minimum in proportion to their percentage participation in the issued and paid up equity share capital of the Project Company shall not be less than fifty one percent (51%) up to a period of Twenty Five (25) years from the date of commissioning of the entire Sanctioned Capacity of the Project Developer. The Successful Bidder may invest in the equity share capital of the Project Company through its Affiliate(s) or Parent Company or Ultimate Parent Company. If the Successful Bidder so invests, the Successful Bidder shall be liable to ensure that minimum equity holding/Lock in limits specified above are still maintained.”
 - (c) Specifying the person nominated by the company as the Authorised Signatory on behalf of the company, who will correspond with the DMRC in regard to introduction of the Project Company and requesting DMRC to allow the Project Company to sign the PPA as the Power Producer with DMRC.
4. Incorporation of Project Company/SPV:
 - (a) Certificate of Incorporation of Project Company /SPV.
 - (b) Memorandum of Association and Article of Association of SPV. It should be ensured that the ‘Main Object’ of the Project Company / SPV, as stated in the MoA, is confined to the execution of the Project as per Letter of Allocation.
5. Introduction of Project Company to the DMRC/NMRC:

Letter from the Successful Bidder, signed by its authorized signatory, supported with its Board Resolution (s), addressed to DMRC, introducing the incorporation of the Project Company and requesting the DMRC to accept the Project Company as the entity which shall undertake and perform the obligations and exercise the rights of the Successful Bidder under the LOA, including the obligation to enter into the Power Purchase

Agreement as the Power Producer with DMRC, pursuant to the LOA for executing the Project.

6. Letter supported by its Board Resolution from the Project Company:

Letter from the Project Company, supported by its Board Resolution, addressed to DMRC, stating as follows:

- (a) it has been promoted by the Successful Bidder specifically for the Project, as clearly provided in its Memorandum of Association, also enclosing the copies of the Certificate of Incorporation, MoA and AoA.
- (b) requesting the DMRC to accept it as the entity which shall undertake and perform the obligations and exercise the rights of the Consortium/JV/Successful Bidder including the obligation to enter into this Power Purchase Agreement, as Power Producer, with DMRC, pursuant to the LOA.
- (c) confirming that it will install and operate a solar photovoltaic power plant of [●] KW capacity (the "Project") at the Premises as defined in the PPA and supply the entire Solar Power of the Project to NMRC / Purchaser on the terms and conditions contained in this Agreement.
- (d) resolving to undertake the project as per the terms of the Letter of Allocation / Contract, and
- (e) Name, designation and other details of the person duly authorized to execute, on behalf of the Project Company as the Power Producer, the Power Purchase Agreement with the NMRC on behalf of the SPV.

7. Legal opinion from the legal counsel of the Project Company, supported by documentary proof, with respect to the authority of the Project Company to execute the Power Purchase Agreement with the DMRC and the enforceability of the provisions thereof.

8. In case, the Bidder intends to hold equity in the Project Company through its 'affiliate'/associate' (with reference to the specific provision in the MoU/Joint Bidding Agreement submitted by the Bidder to the DMRC at the time of the bid), the following documents may also be procured:-

(a) Board Resolution of the Bidder/Consortium recording the following:-

- (i) authorizing its 'affiliate' to invest in the equity of the Project Company.
- (ii) Undertaking that the Bidder/Consortium shall, at all time during the project period, maintain adequate equity in the affiliate/associate so as to fall within the definition of 'affiliate'/associate' as provided in the Power Purchase Agreement.

[Note: In case, the Bidder is a Consortium and more than one consortium member intends to hold the equity in the SPV through its affiliate, each such consortium member should provide separate Board Resolution in the manner as stated above]

(b) Board Resolution of the 'affiliate' Company

- i. authorizing the Company to invest in the equity of the SPV.
- ii. Undertaking that the Company shall at all times comply with the equity requirement as provided in the Power Purchase Agreement.

Section-IX

Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "**Online bidder Enrollment**" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white

coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (ie after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
- 3) For any Technical queries related to Operation of the Central Public Procurement Portal Contact at :

Mobile Numbers: 91 7878007972, 91 7878007973, 91 7574889871, 91 7574889874, 91 8826246593

Tel: The 24 x 7 Toll Free Telephonic Help Desk Number 1800 3070 2232. Other Tel: 0120-4200462, 0120-4001002.

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