

Tender No. NHIT/FY26-27/RFP/Grid-Interactive Solar PV Plants

Request for Proposal (RFP) For Engagement of Agency for Design, Engineering, Procurement, Installation, Testing, Commissioning and Operation & Maintenance of Grid-Connected Solar PV Plants Under RESCO/PPA Model SPVs under National Highways Infra Trust, Collectively Referred As “NHIT-Entities”.

BID SUMMARY		
1	Last date and time for receipt of Bidding Documents	12 October 2026 up to 16:00 Hrs
2	Date and Time of Opening of Bids	12 October 2026 at 17 :00 Hrs
3	Last date for receiving queries from bidders	6 October, 2026
4	NHIT’s response to queries latest by	8 October, 2026
5	Place of Opening of Bids	Unit No.: 325, 3rd Floor, D 21 Corporate Park, Sector– 21, Dwarka–110077, Delhi.
6	Power Purchase Agreement (PPA) Tenure	15 Years from COD
7	Project Portfolio	26 Toll Plazas / 27 Electrical Connections

Note: – Bids will be opened in the presence of bidders who choose to attend as above.

Date of Issue : 30 September 2026

IMPORTANT – STATE-WISE FINANCIAL BID REQUIREMENT

Bidders shall submit the Financial Proposal strictly on a State-wise basis in accordance with Clause 22.11 of this RFP. One uniform tariff (₹/kWh) shall be quoted for each State covering all Toll Plazas identified for that State. Partial State-wise bids shall not be considered for financial evaluation. The Bidder shall also declare the Proposed Consolidated AC Capacity for each State in the prescribed Financial Bid Format.

Refer Clause 17 – Bid Evaluation and Clause 22.11 – Financial Bid Submission Format for detailed requirements.

TABLE OF CONTENTS – All Annexures form an integral part of this RFP.

Section	Description	Page
1	SCOPE OF WORK	6
1.1	Design & Engineering	6
2	Supply, Installation & Commissioning	7
3	Performance, Safety & Quality Requirements	7
3.1	Performance Ratio (PR)	7
3.2	Capacity Utilization Factor (CUF)	7
3.2	System Design Life	8
3.4	Component Quality & Certifications	8
3.5	Lightning, Surge Protection & Earthing	8
3.6	Electrical & Fire Safety	8
3.7	Solar PV Synchronization with Existing DG / BESS during Grid Unavailability	8
3.8	Elevated Structures Where Required	9
3.9	Ground-Mounted Solar PV Installation	10
3.10	DC Capacity and DC/AC Ratio	11
4	OPERATION & MAINTENANCE (O&M)	11
5	FINANCIAL AND CONTRACTUAL OBLIGATIONS	12
6	HANDOVER & TRANSFER	12
7	GENERAL LIABILITY & INSURANCE	12
7.1	Liability	12
7.2	Indemnification	13
7.3	Insurance	13
8	ELIGIBILITY AND QUALIFICATION CRITERIA	13
8.1	Legal Status	13
8.2	Technical Experience	13

8.3	Financial Capacity	14
8.4	Statutory and O&M Capability	14
8.5	Performance Bank Guarantee	15
8.6	JV/Consortium and OEM Support	15
8.7	Verification, Site Visit and Bidder Due Diligence	15
9	CAPACITY OF SOLAR PLANTS AND INSTALLATION REQUIREMENTS	16
10	SITE-WISE DETAILS	16
11	PROJECT COMPLETION TIMELINE	17
12	ENERGY METERING, BILLING, ENERGY SETTLEMENT & RECONCILIATION	18
12.1	On-Grid Configuration	18
12.2	Energy Utilization	18
12.3	Conversion / Reconfiguration of LT Electrical Connection	18
12.4	Surplus Energy	19
12.5	Metering	19
12.6	Electricity Bill Offset / Settlement	19
12.7	RESCO Billing	19
12.8	No Double Counting / Double Recovery	19
12.9	Monthly Reconciliation	19
12.10	Separate Electrical Connections	20
12.11	Existing Solar	20
13	MONITORING, REPORTING & DATA	20
14	QUALITY ASSURANCE, TESTING & ACCEPTANCE	20
15	SITE SAFETY & CONTINUITY OF TOLL OPERATIONS	20
16	BID SUBMISSION REQUIREMENTS	21
17	BID EVALUATION	21
17.1	Technical Evaluation	21

17.2	State-wise Financial Evaluation	21
17.3	Clarification of Bids	22
17.4	Tie in State-wise Financial Evaluation	22
17.5	Award of State Package(s)	22
17.6	NHIT's Rights	22
18	PPA / RESCO COMMERCIAL CONDITIONS	22
19	REGULATORY, POLICY, DCR/NON-DCR AND GRID-CONNECTIVITY REQUIREMENTS	23
19.1-19.8	Regulatory and Policy Requirements	23
20	TERMINATION & CONSEQUENCES	24
21	EMPLOYER'S RIGHTS	24
21.1	Right to Include / Exclude / Withdraw Sites	24
21.2	Grounds for Site Exclusion / Modification	24
21.3	No Bidder Claim	24
21.4	After Award	25
22	STATE-WISE BIDDING, CAPACITY DETERMINATION AND FINANCIAL PROPOSAL	25
22.1	State-wise Bidding Structure	25
22.2	State-wise Tariff	25
22.3	Mandatory State-wise Quotation	25
22.4	Determination of Solar PV Capacity	25
22.5	Bidder Verification of Capacity	27
22.6	Site Feasibility	27
22.7	Tarpongi Toll Plaza – LHS/RHS	27
22.8	Plaza-wise Proposed Capacity Schedule	28
22.9	Tariff Firmness	29
22.10	Commercial Evaluation	29
22.11	Financial Bid Submission Format	29

23	DISPUTE RESOLUTION & GOVERNING LAW	32
ANNEXURES	All Annexures form an integral part of the RFP	
Annexure A	Toll Plaza List	32
Annexure B	Site-wise Geo-Code & DISCOM Schedule	33
Annexure C	Technical Specifications & Minimum Requirements	36
Annexure D	Plaza-wise Sanctioned / Contracted Load from Third-Party Energy Bill Audit Reports	37
Annexure E	Audit Load Data: Bidder Verification Schedule	38
Annexure F	Indicative Site-wise Space Availability	41
Annexure G	Plaza electricity bills (6 Months)	Separate

Scope of Work

The selected bidder shall be responsible for the design, engineering, procurement, installation, testing, commissioning, and operation & maintenance of Grid-Interactive Rooftop/ground mounted or structure mounted Solar PV Plants under the OPEX model across the identified Toll Plazas of National Highways Infra Trust (NHIT).

For this RFP, "Solar PV Plant" means the complete grid-interactive solar installation, including PV modules, inverters, mounting structures, DC/AC systems, protection, metering, monitoring, balance-of-system works and associated civil/structural works.

All works shall be executed in compliance with the respective State Net/Gross Metering Regulations, the Central Electricity Authority (CEA) Technical Standards, applicable BIS/IEC standards, and all other applicable statutory and regulatory provisions.

The installation shall optimally utilize the available shadow-free areas on toll plaza canopies or adjacent structures. The solar capacity at each location shall be finalized based on site-specific feasibility assessments, contract demand, and average daytime electricity consumption patterns under Time-of-Day (ToD) tariff categories. The area information furnished by NHIT, including any site-wise space availability data, is indicative/reference information only. The bidder shall conduct a detailed physical inspection, measurement, shadow assessment, structural assessment and feasibility verification at each site before finalizing the design, capacity and commercial assumptions. The bidder shall satisfy itself regarding the actual availability, accessibility, ownership/use constraints, obstructions and suitability of the proposed installation areas. NHIT shall not be responsible for any discrepancy, variation, shortfall, obstruction or change between the indicative information furnished in the RFP and the actual site conditions observed by the bidder.

Details of each toll plaza, including latitude-longitude coordinates and the respective DISCOM jurisdictions, shall be provided in the relevant Annexure. The third-party energy-bill audit reports, where provided by NHIT, shall be treated as reference information only and shall remain subject to bidder verification.

1. Design & Engineering

- Conduct detailed engineering and site survey of each proposed Toll Plaza rooftop/canopy and assess its structural load-bearing capacity in accordance with applicable Indian Standards, including IS 875 (Part 2), as applicable.
- Assess roof/canopy condition, corrosion, deformation, adequacy of trusses, purlins, connections, mounting locations and structural interfaces.
- Undertake detailed shadow analysis and identify usable shadow-free area for Solar PV installation. The bidder shall independently measure and verify all usable areas and shall not rely solely on the indicative area figures provided by NHIT.
- Verify existing electrical infrastructure, sanctioned/contract demand, recorded MD/RMD, daytime electricity consumption, ToD tariff structure, existing solar systems, metering arrangement, transformer/panel capacity and available interconnection point.
- Prepare and submit comprehensive design documentation, including general arrangement and layout drawings, cable routing, earthing and lightning-protection layouts, string configuration, single-line diagrams and interconnection scheme conforming to the respective DISCOM requirements.

- Design the system to comply with applicable IS/IEC codes, CEA technical standards, State Net Metering Regulations, electrical safety requirements and grid-synchronization requirements.
- Design the system to account for applicable ToD provisions and the manner in which consumption and solar generation/export are settled under the applicable regulatory framework.
- Provide all structural calculations, design certificates and drawings required for approval and safe installation.

Canopy Structural Assessment:

- Where Solar PV installation is proposed on an existing Toll Plaza canopy, the Bidder shall undertake an independent structural assessment through a competent third-party agency to verify the structural adequacy and load-bearing capacity of the canopy for the proposed Solar PV system. NDT and/or other appropriate structural testing shall be undertaken wherever considered necessary based on the structural assessment. The assessment/testing report shall be submitted to NHIT for review and approval prior to commencement of installation. NHIT may, at its sole discretion, waive or modify the requirement for such third-party assessment and/or testing for any specific canopy, based on its assessment of the available structural records, condition of the structure and other relevant factors.

2. Supply, Installation & Commissioning

- Supply, install, test and commission all equipment necessary for a complete and operational Solar PV system.
- Solar PV modules shall be compliant with applicable BIS/IEC requirements and government quality-control requirements.
- Grid-tied inverters shall be suitable for the applicable grid voltage, frequency, protection and synchronization requirements.
- Module mounting structures shall be corrosion-resistant and suitable for the site-specific structural and environmental conditions.
- Supply and install DC and AC cabling, junction/combiner boxes as applicable, isolators, protection equipment, surge protection, earthing, lightning protection and all balance-of-system components.
- Provide all civil, structural, waterproofing, access, cable-support and associated works required for complete installation.
- Installation shall comply with site safety and accessibility requirements and shall minimize disruption to Toll Plaza operations.
- Coordinate with respective DISCOMs for feasibility approval, synchronization, net-metering arrangement and bi-directional/revenue-meter installation, wherever applicable.
- Integrate Solar PV power with the existing electrical system for offsetting eligible consumption in accordance with the applicable regulatory arrangement.
- The Solar PV Plant shall be configured as an on-grid system such that eligible solar energy is accounted for against the electricity consumption of the respective Toll Plaza/electrical connection through the applicable metering and energy-settlement mechanism.

3. Performance, Safety & Quality Requirements

3.1 Performance Ratio (PR)

The Solar PV Plant shall achieve a minimum Performance Ratio (PR) of 75% at commissioning. PR shall be measured at the inverter AC output using calibrated irradiance measurements and the approved performance-test methodology.

3.2 Capacity Utilization Factor (CUF)

The Solar PV Plant shall maintain a minimum annual CUF of 15% throughout the O&M period and at the time of asset transfer, subject to the contractual measurement methodology and permitted exclusions.

$$\text{CUF} = \text{Annual Energy Generated (kWh)} / [\text{Plant Capacity (kW)} \times 8760]$$

The successful bidder shall submit periodic monthly and annual generation data and CUF calculations to NHIT for performance verification.

3.3 System Design Life

The Solar PV Plant shall be designed for a minimum design life of 25 years, with structural and electrical components suitable for long-term outdoor installation under Indian climatic conditions.

3.4 Component Quality & Certifications

- All components used in the project, including PV modules, inverters, protection devices, wiring and balance-of-system equipment, shall comply with applicable MNRE/government requirements, BIS/IEC standards and applicable Quality Control Orders in force on the bid date.
- Bidder shall provide relevant type-test certificates, factory-test certificates, warranties, datasheets and traceability records.

3.5 Lightning, Surge Protection & Earthing

Adequate lightning protection, surge protection and earthing arrangements shall be provided in accordance with IS 3043 and other relevant Indian Standards.

3.6 Electrical & Fire Safety

- Safety provisions shall include AC and DC isolation, appropriate over-current and surge protection, arc-fault mitigation where applicable, emergency isolation and suitable fire-protection measures.
- All installations shall comply with the National Building Code, CEA safety requirements and applicable electrical safety regulations.

3.7 Solar PV Synchronization with Existing DG / BESS during Grid Unavailability or both

In order to maximize utilization of Solar PV generation during periods of grid unavailability, the Successful Bidder shall design, supply, install, configure, integrate, test and commission the complete Solar PV synchronization, control, protection and interface infrastructure of adequate capacity for coordinated operation of the Solar PV Plant with the existing DG Set(s) and/or BESS installed or subsequently made available by NHIT / the designated SPV, as applicable at each Toll Plaza.

The synchronization and control system shall, as applicable to the site configuration, provide for:

- Automatic source detection and synchronization;

- Dynamic Solar PV power regulation and load sharing;
- Reverse-power protection and minimum DG loading protection, where applicable;
- Controlled transition between grid, DG and BESS operating modes;
- Safe reconnection upon restoration of grid supply; and
- Prevention of unintended islanding, unsafe reverse power flow, source-to-source conflict and abnormal operating conditions.

The Successful Bidder shall provide all necessary PV-side controllers, synchronization equipment, PLC/EMS interfaces, communication gateways, protection and control interfaces, metering/feedback signals, control cabling and associated balance-of-system works required for integration with the existing DG/BESS control system. The control philosophy shall optimize Solar PV utilization while maintaining the required load supply, DG/BESS operating limits, protection coordination, power quality and system stability.

The Successful Bidder shall undertake the required site survey, load and electrical-system assessment, interface engineering, control-logic development, configuration, installation, testing and commissioning, and shall demonstrate satisfactory operation under applicable grid-available, grid-failure, DG/BESS-assisted and grid-restoration conditions.

The CAPEX of the DG Set(s) and BESS, including their procurement, installation and ownership, shall be borne by NHIT / the designated SPV and shall not form part of the Successful Bidder's scope. However, all Solar PV-side synchronization, control, protection, communication and interface infrastructure required for coordinated operation with such DG/BESS shall form part of the Successful Bidder's scope and shall be deemed included in its quoted tariff.

The Successful Bidder shall coordinate with NHIT / the designated SPV and the respective DG/BESS supplier, where applicable, and shall ensure that such integration does not adversely affect the safety, protection, warranty, availability or performance of the existing DG/BESS or the Toll Plaza electrical system.

The capacity and configuration of the Solar PV synchronization and interface system shall be determined by the Successful Bidder based on the installed/proposed Solar PV capacity, connected load, existing/proposed DG/BESS capacity and site-specific electrical architecture, and shall be adequate for all intended operating modes.

The Successful Bidder shall provide suitable IoT-enabled energy metering, data acquisition and remote monitoring facilities for the Solar PV, grid, DG and BESS interfaces, as applicable to the site configuration. The system shall record and communicate relevant electrical and energy parameters, including source-wise voltage, current, power, energy, frequency, operating status, alarms and key synchronization events, with suitable time-stamped data logging. The system shall support remote

monitoring by NHIT / the designated SPV through the approved monitoring platform and shall not replace or interfere with any statutory/DISCOM metering requirements.

3.8 Elevated Structures Where Required

Where adequate and technically suitable space is not available within the Toll Plaza premises to accommodate the Solar PV capacity determined in accordance with the applicable sanctioned/contracted load, DISCOM limits and consumption-based assessment specified in this RFP, or where NHIT determines, based on the site-specific feasibility assessment, that an elevated structure is required to achieve the permissible/design capacity, the Successful Bidder shall, at its own cost and risk, design, engineer, supply, fabricate, install and commission suitable elevated structures within the Toll Plaza premises.

The elevated structures shall:

- be designed for the proposed Solar PV capacity and the site-specific structural and environmental conditions;
- be capable of safely supporting the dead load of the PV modules, mounting systems, cables and associated equipment, together with applicable imposed, wind and other design loads;
- comply with applicable Indian Standards, structural design requirements, safety regulations and the design wind loads applicable to the respective location;
- be designed with adequate structural strength, stability, durability, corrosion protection and appropriate foundations/anchoring arrangements; and
- maintain all applicable clearances, access, safety and operational requirements of the Toll Plaza.

The complete structural design and stability shall be independently reviewed and certified by a qualified third-party structural engineer/agency, and the Successful Bidder shall submit the structural design calculations, drawings and certification to NHIT / the designated SPV before commencement of the relevant works.

The requirement, location and extent of such elevated structure shall be determined based on the site-specific feasibility assessment and the requirements communicated by NHIT. The decision of NHIT in this regard shall be final and binding on the Successful Bidder.

All costs associated with the design, approval, fabrication, transportation, foundations, erection, structural certification and commissioning of such elevated structures shall be deemed included in the Successful Bidder's quoted tariff and shall not constitute a separate payment or compensation.

3.9 Ground-Mounted Solar PV Installation

Where ground-mounted Solar PV installation is identified as technically feasible and permitted within the Toll Plaza premises, the Successful Bidder shall undertake the complete design, engineering,

procurement, installation, testing and commissioning of the ground-mounted Solar PV system, including all associated civil, structural and electrical works.

The Successful Bidder shall independently verify the suitability of the identified area and shall be responsible for:

- site survey, level assessment, soil and foundation assessment and determination of the appropriate mounting/foundation arrangement;
- design and construction of foundations and mounting structures suitable for the site-specific soil, wind, environmental and loading conditions;
- provision of required access, equipment clearances, drainage and maintenance arrangements;
- provision of fencing, barricading or other protective measures where required for safety and security;
- appropriate routing and protection of DC/AC cables and associated electrical infrastructure;
- earthing, lightning and surge protection and other applicable electrical safety arrangements; and
- ensuring that the installation does not obstruct Toll Plaza operations, traffic movement, drainage, access, maintenance activities or any existing utility/service.

The ground-mounted system shall comply with applicable statutory requirements, Indian Standards, CEA requirements, DISCOM requirements and other applicable technical and safety provisions. The Bidder shall undertake all necessary site verification and shall not rely solely on the indicative area information provided in the Annexures.

All civil, structural, electrical and associated works required for the ground-mounted Solar PV installation shall be included in the Successful Bidder's scope and shall be deemed included in its quoted tariff.

3.10 DC Capacity and DC/AC Ratio

The Successful Bidder shall determine the DC capacity and DC/AC ratio during detailed engineering based on the approved AC capacity, site conditions, inverter characteristics and applicable technical and regulatory requirements. Any increase in DC capacity or change in the approved DC/AC ratio shall require prior written approval of NHIT where it affects the approved design, structural/electrical loading, equipment ratings, protection, statutory/DISCOM approvals or safety.

The selected DC configuration shall remain within the permissible operating limits of all associated equipment and shall not affect plant safety, performance, warranty or grid compliance.

4. Operation & Maintenance (O&M)

The successful bidder shall operate and maintain the Solar PV Plant throughout the PPA tenure of fifteen (15) years from the Commercial Operation Date (COD), subject to the terms and conditions of the Contract/PPA.

- Regular inspection, module cleaning and preventive maintenance.
- Remote performance monitoring through an IoT/SCADA/online monitoring platform.
- Submission of monthly generation, performance and availability reports to NHIT.
- Periodic inspection and replacement/repair of defective modules, inverters, protection equipment, cables and other system components as required.
- Maintain system availability at greater than 98%, subject to the contractual measurement methodology and permitted exclusions.
- Maintenance of all statutory records and coordination with DISCOMs for billing, metering and energy reconciliation.
- Maintenance of adequate critical spares and site response arrangements.
- Submission of annual maintenance, performance and asset-condition reports.

5. Financial and Contractual Obligations

- The bidder shall finance the project and supply solar power to NHIT under the RESCO/PPA arrangement at the accepted tariff in Rs.... /kWh.
- The tariff shall be fixed for the PPA tenure, except for such adjustment as may be expressly permitted under applicable regulatory orders or the final PPA.
- The quoted tariff shall include all costs associated with financing, design, equipment, installation, statutory approvals, metering, insurance, O&M, monitoring, spares, replacements and transfer of the asset, unless expressly excluded.
- The bidder shall furnish Performance Security/PBG in the form, amount and validity specified by NHIT in the Contract/PPA.
- NHIT/SPV shall make payment to the RESCO against verified metered solar energy eligible for billing under the PPA, after accounting for the applicable metering, energy-settlement and reconciliation mechanism.
- Taxes, duties, statutory levies and regulatory charges shall be dealt with in accordance with the Contract/PPA.

6. Handover & Transfer

- At the end of the fifteen (15) year PPA tenure, the complete Solar PV plant shall be transferred to NHIT at zero residual value, free from liens, encumbrances and third-party claims, in fully functional and serviceable condition.
- At handover, the plant shall demonstrate compliance with the applicable PR/CUF requirements specified in this RFP, subject to the contractual measurement methodology and permitted exclusions.
- All system components shall be in sound and serviceable condition, including module mounting structures, DC/AC cabling, inverters, protection systems, earthing, lightning protection, monitoring and safety systems.
- The successful bidder shall provide all as-built drawings, asset registers, manuals, warranties, test certificates, maintenance records, monitoring data, software/access credentials and other documents required for operation after transfer.

- Any defects or performance gaps identified during joint handover inspection shall be rectified by the successful bidder at no additional cost before final handover acceptance.
- NHIT shall be provided with appropriate training/handover support for operation and monitoring of the transferred plant.

7. General Liability & Insurance

7.1 Liability

The successful bidder shall be responsible for the safety, security and reliability of all works executed under the Contract, including design, engineering, procurement, installation, testing, commissioning, operation and maintenance of the Solar PV Plant.

Any accident, loss, damage, injury, fire, electrical hazard or other incident arising from the bidder's works, personnel, equipment or negligence shall be dealt with in accordance with the Contract, without prejudice to NHIT's rights and remedies.

7.2 Indemnification

The successful bidder shall indemnify and hold harmless NHIT and its entities, its employees, officers and representatives against claims, losses, damages, penalties, liabilities and expenses arising from the bidder's acts, omissions, breach, negligence or non-compliance, subject to the final contractual provisions.

7.3 Insurance

- Contractor's All-Risk / Erection All-Risk insurance up to commissioning, as applicable.
- Comprehensive Third-Party Liability Insurance.
- Workmen Compensation / Employee Compensation Insurance as applicable.
- Plant & Machinery / operational asset insurance covering relevant risks including fire, theft, natural calamities and electrical risks.
- Any additional insurance required under the Contract/PPA or applicable law.

8. ELIGIBILITY AND QUALIFICATION CRITERIA

The Bidder shall meet the following eligibility and qualification requirements and submit supporting documents. NHIT reserves the right to verify the submitted information. False, misleading or unverifiable information may lead to rejection of the Bid and/or action under the RFP, Contract or PPA.

The Project shall be implemented on an OPEX/RESCO basis, under which the successful Bidder shall arrange the required capital at its own cost and risk and shall design, install, commission, operate and maintain the Solar PV Plants during the 15-year PPA tenure.

The Solar PV capacity at each location shall be as per the methodology specified in Section 22, subject to site feasibility, available area, electrical infrastructure and applicable State/DISCOM requirements. NHIT may include, exclude or modify locations/capacities in accordance with Clause 21.

8.1 Legal Status

The Bidder shall be a company, LLP, partnership firm or other legally constituted entity eligible under applicable Indian laws.

JV/Consortium bidding shall be permitted as per this RFP.

8.2 Technical Experience

The Bidder shall have the following experience:

- a) Successfully executed and commissioned a minimum of three (3) grid-connected Solar PV projects during the five (5) years immediately preceding the Bid Submission Date, having a combined installed AC capacity of not less than the higher of (i) 50% of the bidding capacity declared by the Bidder under Clause 22.11 and (ii) 500 kW (AC);
- b) Successfully executed and commissioned at least one (1) rooftop, canopy or distributed Solar PV project of minimum 500 kWp capacity under a single contract;
- c) At least twelve (12) months of O&M experience for at least one commissioned Solar PV project;
- d) Successfully executed Solar PV projects covering two (2) or more geographically separated locations in different cities, under one or more contracts, demonstrating experience in multi-site Solar PV project execution and management;
- e) Experience in Solar PV projects for Government/PSU, highway/toll plaza, airport, railway, industrial or other 24x7 critical infrastructure shall be considered relevant experience.

8.3 Financial Capacity

The Bidder shall meet all of the following requirements:

a) Net Worth

- Positive net worth of not less than INR 3 Crore or 50% of the Estimated Initial Project Investment, whichever is higher, as per the latest audited financial statements.
- For the purpose of this RFP, the Estimated Initial Project Investment shall be considered at INR 40,000 per kW of proposed Solar PV capacity on AC side.

b) Average Annual Turnover

- Average annual turnover of the Bidder, calculated based on the last three (3) completed financial years, shall be at least 50% of the Estimated Initial Project Investment.

c) Liquid Financial Resources

- Liquid financial resources and/or unutilized working-capital facility of not less than 50% of the Net Worth requirement specified under Clause 8.3(a).

d) Project Funding Capability

The Bidder shall demonstrate its ability to arrange the required capital for implementation of the Project at its own cost and risk and shall submit an undertaking confirming the same.

The Estimated Initial Project Investment shall be calculated as:

Estimated Initial Project Investment = Proposed Solar PV Capacity (kW AC) × INR 40,000/kW AC

The above rate is an indicative benchmark for financial qualification only and shall not be treated as the actual project cost or any amount payable or reimbursable by NHIT.

8.4 Statutory and O&M Capability

The Bidder shall:

- a) possess valid PAN, GST and other applicable registrations;
- b) comply with applicable Electricity Act, CEA, State Electrical Inspectorate and State/DISCOM requirements;
- c) possess or arrange the required electrical licenses/authorizations through an authorized electrical contractor; and
- d) have adequate qualified personnel and resources for Solar PV installation, commissioning and O&M during the 15-year PPA tenure.
- e) The Bidder shall not be an associate of the Sponsor i.e., NHAI, or NHIT or IDBI Trusteeship Services Limited.

8.5 Performance Bank Guarantee

The successful Bidder shall submit a Performance Bank Guarantee (PBG) equivalent to 10% of the Estimated Initial Project Investment within 15 days of issuance of the Letter of Award, after issuance of the Letter of Award (LOA) and prior to signing of the PPA.

The PBG shall remain valid for the entire commissioning period, including any extension thereof, as approved by NHIT, and shall be in the form and manner specified in the LOA.

The PBG shall be issued by a scheduled commercial bank acceptable to NHIT and shall be unconditional and irrevocable.

8.6 JV/Consortium and OEM Support

For JV/Consortium bids, the members, roles and credentials relied upon for meeting the eligibility criteria shall be clearly stated.

Where OEM/technical support is proposed, the Bidder shall submit an appropriate undertaking/agreement.

The Bidder shall remain responsible for the complete performance of the Contract/PPA.

8.7 Verification, Site Visit and Bidder Due Diligence

NHIT may verify any credential, project reference, certificate, financial information, license, authorization or other document submitted by the Bidder. Failure to substantiate any claimed qualification or credential may result in its non-consideration. Any materially false or misleading

information may result in rejection of the Bid and/or such action as may be taken under the RFP, Contract or PPA.

The Bidder may, at its own cost, undertake site visit(s) to the Toll Plazas/electrical connection locations prior to submission of its Bid. Such site visit shall not be mandatory as a condition for submission of the Bid.

Notwithstanding the above, the Bidder shall be solely responsible for satisfying itself, through site visit(s), available information, technical due diligence and such other means as it considers appropriate, regarding the actual site conditions, available area, accessibility, structural and electrical conditions, existing installations, load and consumption data, applicable regulatory/DISCOM requirements and all other factors relevant to the design, capacity determination, pricing and execution of the Project.

All information, data, drawings, measurements, site details and other particulars furnished by NHIT in the RFP and its Annexures shall be treated as indicative/reference information only, unless expressly stated otherwise. The Bidder shall independently verify such information and undertake its own assessment before submission of its Bid.

The Bidder shall have no claim against NHIT for any additional cost, compensation, loss, damage, extension of time or other relief solely on account of any discrepancy, variation, shortfall, obstruction, inaccuracy or difference between the information furnished in the RFP and the actual site conditions, where such matter could reasonably have been identified or assessed through the Bidder's due diligence.

Submission of the Bid shall constitute the Bidder's acknowledgement that it has undertaken, or has made adequate arrangements to undertake, the due diligence necessary to formulate its technical and financial proposal and has duly factored the associated risks and requirements into its Bid.

9. Capacity for Solar Plants and Installation Requirements

The Solar PV Plants shall be installed at locations within the Toll Plaza premises identified through the site-specific feasibility assessment, including rooftops, canopies, ground-mounted areas, elevated structures with minimum 3.5-meter ground clearance or other technically suitable locations, subject to applicable technical, structural, safety, statutory and State/DISCOM requirements.

10. Site-Wise Details

Site-wise plaza details, including plaza code, city/state, latitude-longitude and DISCOM jurisdiction, are provided in Annexure B. The Toll Plaza list is provided in Annexure A.

Sl. No.	Focus Plaza
1	Gadanki
2	Marripalem

Sl. No.	Focus Plaza
3	Veeravalli
4	Kelapur
5	Galia
6	Mahasamudram
7	Madapam
8	Undavariya
9	Tarpongi LHS/RHS
10	Nathavalasa
11	Faridpur
12	Aroli
13	Hebbalu
14	Dahalapara
15	Patgaon
16	Maigalganj
17	Chhapar
18	Mudhipar
19	Usaka
20	Kognoli
21	Bankapur
22	Chalageri
23	Dukkavanipalem
24	Bahadrabad
25	Bhojpuri
26	Pullur

11. Project Completion Timeline

The Successful Bidder shall complete the design, engineering, procurement, supply, installation, testing, statutory/DISCOM approvals and commissioning of the Solar PV Plant(s) and achieve Commercial Operation Date (COD) within a maximum period of one hundred and twenty (120) days from the date of issuance of the LOA.

The Successful Bidder shall plan and execute all activities, including procurement, statutory/DISCOM approvals, installation, testing and commissioning, to achieve COD within the above period.

Any extension of the contractual timeline, where applicable, shall be governed strictly by the provisions of the final Contract/PPA relating to demonstrable statutory/DISCOM delays, Force Majeure and other expressly permitted events.

12. Energy Metering, Billing, Energy Settlement & Reconciliation

12.1 On-Grid Configuration:

The Solar PV Plants shall be grid-connected/on-grid systems and shall operate in parallel with the existing electrical supply of the respective Toll Plaza/electrical connection, subject to applicable State/DISCOM regulations and approvals.

12.2 Energy Utilization:

Solar energy generated by the RESCO plant shall, to the extent permitted by the applicable regulatory framework, be utilized for meeting the electricity consumption of the respective Toll Plaza/electrical connection. Solar energy utilized shall reduce the corresponding electricity drawn from the grid.

12.3 Conversion / Reconfiguration of LT Electrical Connection

The Successful Bidder shall, at its own risk and cost, arrange and complete the conversion of existing HT electrical connections to LT supply, wherever such conversion is permissible under the applicable DISCOM regulations, sanctioned load/contract demand and technical requirements, and as may be required for implementation and grid synchronization of the Solar PV Plant.

The Successful Bidder shall also be responsible, at its own risk and cost, for undertaking any modification, reconfiguration, augmentation or alteration of the existing electrical infrastructure required for safe and compliant integration of the Solar PV Plant with the existing electrical system, including, as applicable, electrical panels, cables, protection systems, metering arrangements, service connections, synchronization arrangements and associated equipment.

The Successful Bidder shall be solely responsible for all engineering, design, applications, DISCOM coordination, approvals, inspections, testing, commissioning and compliance with the applicable technical, safety and regulatory requirements in connection with such conversion or modification.

All costs and expenses associated with such conversion, modification, reconfiguration or augmentation, including engineering, equipment, material, labor, installation, testing and incidental expenses, shall be borne by the Successful Bidder.

Notwithstanding the above, statutory fees, application fees, conversion charges, service-line charges, system-strengthening charges or any other mandatory charges specifically levied by and payable to the concerned DISCOM shall be reimbursed by NHIT / the designated SPV to the Successful Bidder at actuals, subject to submission of the DISCOM's official demand/assessment and satisfactory documentary proof of payment. No markup, overhead, interest, service charge or other additional amount shall be payable on such reimbursable charges.

The Successful Bidder shall initiate the required conversion/modification process only after execution of the PPA and shall complete the same, including obtaining all requisite DISCOM approvals and making the revised/modified connection operational, before submission of the first Solar PV energy bill to NHIT / the designated SPV.

The Successful Bidder shall remain solely responsible for timely coordination with the concerned DISCOM and completion of all such work. Any delay attributable to the Successful Bidder in initiating, pursuing or completing the required conversion, modification or approval process shall be to the Successful Bidder's account and shall not entitle it to any additional tariff, compensation or extension of the PPA/BOOT tenure.

12.4 Surplus Energy:

Any surplus solar energy not consumed by the Toll Plaza at the time of generation may be exported to the grid only where such export is permitted under the applicable State/DISCOM regulatory framework. Such export, credits and settlement shall be accounted for in accordance with the applicable regulations and the PPA.

12.4 Metering:

Appropriate generation, import/export and revenue/bi-directional metering shall be installed and maintained as required by the applicable DISCOM/regulatory framework. The metering arrangement shall enable determination of solar energy generated, solar energy delivered/utilized, grid import, grid export and applicable settlement/credits.

12.5 Electricity Bill Offset / Settlement:

The electricity generated and delivered by the RESCO Solar PV Plant shall be appropriately accounted for in the electricity bill/energy settlement of the respective Toll Plaza/electrical connection, including adjustment or offset of eligible solar energy against grid electricity consumption, to the extent permitted under the applicable regulatory framework.

12.6 RESCO Billing:

The RESCO shall raise its monthly invoice on NHIT/SPV based on the verified metered solar energy eligible for billing under the PPA, at the State-wise tariff quoted and accepted under this RFP. The PPA shall specify the applicable meter, billing point and treatment of generation, self-consumption, grid import, grid export and regulatory credits.

12.7 No Double Counting / Double Recovery:

The same unit of electricity shall not be counted or paid for more than once. Solar energy accounted for under the RESCO invoice and the corresponding electricity-bill settlement shall be subject to monthly reconciliation to prevent double counting, double billing or double recovery.

12.8 Monthly Reconciliation:

The RESCO shall submit a monthly energy reconciliation statement showing, at minimum:

- Solar energy generated;
- Solar energy delivered/utilized;
- Grid import;
- Grid export, where applicable;
- DISCOM meter readings;
- Solar energy credited/adjusted in the electricity bill;
- RESCO-billed energy; and
- applicable tariff and other contractual adjustments.

12.9 Separate Electrical Connections:

Energy generated, consumed, imported, exported or credited shall be accounted for separately for each electrical connection. Tarpongi LHS and RHS shall not be aggregated or netted against each other unless expressly permitted by the applicable DISCOM/regulatory framework and approved by NHIT.

12.10 Existing Solar:

Existing solar generation or credits shall be separately identified and reconciled and shall not be treated as RESCO generation or used to inflate the RESCO's billable energy.

13. Monitoring, Reporting & Data

- Provide continuous remote monitoring of plant generation, inverter status, alarms, meter status, availability and key performance parameters.
- NHIT shall have access to site-wise and portfolio-level dashboards and historical data.
- Monthly and annual reports shall include generation, CUF/PR as applicable, availability, downtime, faults, corrective actions and major maintenance activities.

- Project data, drawings, manuals, software/access credentials and historical operating data shall be handed over to NHIT at the end of the PPA term.

14. Quality Assurance, Testing & Acceptance

- Bidder shall submit a project-specific Quality Assurance Plan and Inspection & Test Plan.
- Major equipment shall be supported by applicable factory test certificates and quality documentation.
- Pre-commissioning and commissioning tests shall include electrical safety, insulation, earthing, protection, inverter functionality, synchronization, metering and anti-islanding tests as applicable.
- NHIT/DISCOM may witness tests and inspections.
- Commercial Operation Date shall be established only after satisfaction of the applicable commissioning, metering and regulatory requirements.

15. Site Safety and Continuity of Toll Operations

- Bidder shall prepare a site-specific safety and work methodology before commencing installation.
- Works shall be planned to avoid interruption to toll collection, traffic movement, emergency access, communications and other critical operations.
- Work-at-height, lifting, electrical isolation and access-control procedures shall be implemented.
- Temporary barricading, signage, PPE and housekeeping shall be provided as required.

16. Bid Submission Requirements

1. Covering letter and authorization documents.
2. Legal constitution and statutory registrations.
3. Eligibility and qualification documents.
4. Relevant Solar PV / RESCO / O&M project experience.
5. Audited financial statements and financial-capacity documents.
6. Technical methodology and project implementation plan.
7. Site-wise preliminary feasibility and proposed PV capacity.
8. Indicative annual generation and key design assumptions.
9. Major equipment datasheets and compliance certificates.
10. O&M, monitoring and field-response plan.
11. Quality, safety and environmental management plan.
12. Commercial bid in the prescribed format.
13. Deviation statement and declarations.

17. BID EVALUATION

17.1 Technical Evaluation

Technical responsiveness and compliance with all mandatory eligibility, technical, commercial and other requirements of the RFP shall be established prior to evaluation of the State-wise Financial Proposals.

Only Bidders meeting the prescribed eligibility criteria and whose Bids are determined to be technically responsive and compliant with the RFP shall be considered for State-wise commercial evaluation.

17.2 State-wise Financial Evaluation

- The Financial Proposal shall be evaluated independently for each State based on the uniform tariff quoted by the Bidder for all Solar PV Projects/plazas identified for that State.
- The Bidder shall quote for all Projects/plazas identified for a State. A partial bid covering only some of the Projects/plazas within a State shall be treated as non-responsive and shall not be considered for State-wise financial evaluation.
- The Bidder shall quote one uniform tariff in INR/kWh for each State, which shall be applicable to all Projects/plazas identified for that State.
- Among the technically responsive and financially compliant Bids, the lowest uniform State-wise tariff shall be determined as L1 for that State.
- State-wise ranking shall be determined independently for each State. No separate plaza-wise financial ranking shall be undertaken where a uniform State-wise tariff is prescribed.
- A Bidder may be determined as L1 and awarded one or more State packages, subject to the provisions of this RFP and NHIT's right to award one or more State packages.

17.3 Clarification of Bids

NHIT may seek clarification or additional information from any Bidder for the purpose of evaluation and verification of the Bid.

Any such clarification shall not permit or result in any material alteration, modification, substitution or improvement of the Bid or Financial Proposal, including the quoted tariff.

17.4 Tie in State-wise Financial Evaluation

In the event that two or more technically responsive Bidders quote an identical lowest tariff for a State, the determination of the successful Bidder shall be made in accordance with the tie-breaking mechanism specified in the RFP, if any, or otherwise in accordance with the applicable procurement provisions and procedures of NHIT.

17.5 Award of State Package(s)

NHIT may award **one or more State packages** to the respective L1 Bidder(s), based on the State-wise evaluation, subject to the terms and conditions of the RFP and applicable procurement provisions.

Determination of a Bidder as L1 for a State shall not, by itself, create an unconditional right to award, and the final award shall be subject to issuance of the applicable Letter of Award (LOA) by NHIT.

17.6 NHIT's Rights

NHIT reserves the right, in accordance with the RFP and applicable procurement provisions, to:

- accept or reject any Bid;

- annul or cancel the tender process;
- withdraw, exclude, defer or modify any Plaza/Project from the scope;
- award or not award any particular State package; and
- take such other action as may be permissible under the RFP and applicable procurement provisions.

No Bidder shall have any claim against NHIT solely by reason of non-award, partial award, withdrawal or modification of any State package or Plaza/Project, except to the extent expressly provided under the RFP or applicable law.

18. PPA / RESCO Commercial Conditions

- The Successful Bidder shall execute the applicable PPA/RESCO Agreement with NHIT in the format prescribed by NHIT.
- The tariff, tenure, payment mechanism, taxes, security, Change in Law, curtailment, deemed generation, force majeure, default, termination and asset-transfer provisions shall be governed by the executed PPA.
- Unless otherwise specified in the RFP or PPA, the Successful Bidder shall bear all project development, financing, implementation, operation and maintenance costs necessary to perform its obligations under the RFP and PPA.
- No minimum energy purchase or generation guarantee shall be assumed by the Bidder unless expressly provided in the executed PPA.
- The PPA tenure shall be fifteen (15) years from the Commercial Operation Date (COD), unless otherwise extended or terminated in accordance with the RFP and/or executed PPA.
- The Successful Bidder shall execute the PPA in the format prescribed by NHIT within the period specified in the RFP and/or LOA, or within such extended period as may be permitted by NHIT. The PPA shall incorporate the applicable technical, commercial, performance, payment, metering, energy settlement, default, termination, asset-transfer and other provisions necessary for implementation and operation of the Project.
- The PPA shall be consistent with the fundamental technical and commercial framework of this RFP, including the OPEX/RESCO model, the Successful Bidder's investment and financing responsibility, fifteen (15)-year PPA/BOOT tenure, quoted tariff and payment mechanism, performance obligations and applicable risk allocation. NHIT shall be entitled to incorporate such detailed provisions, procedures, safeguards, clarifications and consequential amendments as may be necessary for effective implementation and administration of the Project, provided that such provisions do not fundamentally alter the basis of the Bid.
- Submission of the Bid shall constitute acceptance of the requirement to execute the PPA in the form and manner prescribed by NHIT and in accordance with the RFP and LOA. Failure to execute the PPA within the stipulated period, or such extended period as may be permitted by NHIT, shall constitute a default and may result in such action as may be provided under the RFP, LOA and applicable PPA, including cancellation of the LOA and/or invocation or forfeiture of the applicable security, as applicable.

19. Regulatory, Policy, DCR/Non-DCR and Grid-Connectivity Requirements

- 19.1** The Bidder shall independently assess and comply with all applicable Government, MNRE, CEA, State Government, DISCOM and regulatory requirements relating to the design, procurement, installation, commissioning and operation of the Solar PV Plants.
- 19.2** The Bidder shall, as part of its Bid, duly consider all applicable and reasonably ascertainable requirements relating to DCR/non-DCR, ALMM, equipment eligibility, net-metering, grid connectivity, metering and DISCOM procedures, and shall make appropriate provision for the same in its technical and financial proposal.
- 19.3** The Bidder shall be responsible for obtaining all feasibility, connectivity, synchronization, net-metering, metering, inspection and other approvals required for implementation and operation of the Solar PV Plants.
- 19.4** The Bidder shall remain abreast of applicable regulatory and policy requirements during implementation and shall suitably adapt its design, equipment, documentation and implementation arrangements, as required for compliance.

19.5 – Firm Tariff:

The quoted tariff shall remain firm and non-escalable from the Bid Submission Date through LOA, PPA execution, implementation, commissioning and operation. The Bidder shall accordingly factor into its quoted tariff all applicable regulatory and policy requirements and associated implementation risks. Changes in regulatory, DCR/non-DCR, ALMM, equipment eligibility, net-metering, grid-connectivity or DISCOM requirements arising during this period shall be addressed by the Bidder within the quoted tariff.

19.6 – Commissioning Period:

The Successful Bidder shall complete installation, obtain the requisite approvals and achieve COD within a maximum period of 120 days from the date of issuance of the LOA. The Bidder shall plan its procurement, approvals, installation and commissioning activities accordingly.

20. Termination & Consequences

- Termination events, cure periods, transition arrangements and financial consequences shall be specified in the final PPA.
- On termination, the bidder shall maintain safe operation and protect the assets until transfer/removal instructions are completed.
- All project records, meter data and monitoring information required by NHIT shall be handed over upon termination as applicable.

21. Employer's Rights

- NHIT may accept or reject any bid, cancel the RFP, revise the scope, include/exclude sites, modify site capacity or split awards, subject to applicable procurement conditions.
- NHIT may inspect, audit and verify project records, plant condition, energy meters and monitoring data during the PPA tenure.
- Nothing in the RFP shall create a guaranteed minimum purchase unless expressly stated in the final PPA.

21.1 Right to Include / Exclude / Withdraw Sites

- NHIT reserves the right, subject to applicable procurement provisions, to add, omit, withdraw, exclude or defer any Toll Plaza/electrical connection from the scope of this RFP, or to modify the proposed Solar PV capacity, at any stage prior to issuance of the Letter of Award/Work Order, without assigning any reason and without any liability towards the Bidder.

21.2 Grounds for Site Exclusion / Modification

Such exclusion, withdrawal, deferment or modification may arise due to technical feasibility, structural suitability, site availability, change in Toll Plaza configuration, shifting/dismantling of a Toll Plaza, DISCOM/regulatory constraints, change in electricity consumption, existing/proposed solar capacity, administrative requirements, project prioritization or any other project-specific consideration.

21.3 No Bidder Claim

- The Bidder shall have no right to claim compensation, reimbursement of bidding costs, loss of anticipated profit, damages or any other payment on account of such exclusion, withdrawal, deferment or modification prior to award.

21.4 After Award

Any exclusion, withdrawal or modification of a site after award shall be governed by the applicable provisions of the Contract/PPA.

22. State-wise Bidding, Capacity Determination and Financial Proposal

22.1 State-wise Bidding Structure

The Toll Plazas shall be grouped State-wise for the purpose of bidding and commercial evaluation.

A Bidder may participate in one or more States. However, where a Bidder participates in a particular State, it shall quote for all Toll Plazas/electrical connections included in that State.

Selective bidding for individual Toll Plazas within a State shall not be permitted.

22.2 State-wise Tariff

The Bidder shall quote one uniform tariff in ₹/kWh for each State.

The quoted tariff shall apply uniformly to all Toll Plazas/electrical connections awarded to the Bidder within that State.

No separate plaza-wise tariff shall be permitted within the same State.

The tariff shall be quoted on a RESCO (OPEX) basis and shall cover the complete scope of the Project, including design, financing, procurement, installation, commissioning, metering, statutory/DISCOM approvals, insurance, O&M, monitoring, repairs, replacements and eventual transfer of the Solar PV system to NHIT.

22.3 Mandatory State-wise Quotation

The Bidder shall submit a financial proposal for all Toll Plazas/electrical connections forming part of the State for which it submits a bid. A partial quotation for selected Toll Plazas within a State shall be treated as non-responsive for that State. NHIT reserves the right to exclude any individual Toll Plaza/electrical connection from award on account of technical, regulatory, site or other project-specific constraints.

22.4 Determination of Solar PV Capacity

The Solar PV capacity for each Toll Plaza/electrical connection shall be determined considering the applicable regulatory/DISCOM limits, eligible electricity consumption and settlement mechanism, site feasibility, and other project-specific constraints, as follows:

a) Regulatory Limit:

The maximum AC capacity permissible under the applicable sanctioned/contracted load and State/DISCOM regulations shall be determined.

b) Consumption and Energy Settlement Limit:

The average monthly electricity consumption (Day + Night), based on the preceding six (6) complete months, shall be calculated.

For tender sizing purposes, 1 kW AC Solar PV capacity shall be assumed to generate 4 kWh/day, equivalent to 120 kWh/month.

Accordingly:

$$\text{Consumption-based Capacity (kW)} = \text{Average Monthly Consumption (kWh)} \div 120$$

However, the Bidder shall independently verify the applicable State/DISCOM regulations and the electricity settlement mechanism, including the eligibility and manner of adjustment/offset of solar energy generated/exported against electricity consumption during non-solar generation hours, including night-time consumption.

Where the applicable regulatory/DISCOM framework does not permit, restricts, or otherwise limits adjustment/offset of solar energy exported during the generation period against electricity consumed during non-solar generation hours, the Bidder shall take such restriction into account while determining the technically and commercially viable Solar PV capacity. The Bidder shall not assume any adjustment, banking, netting or offset of solar generation against night-time or other non-solar consumption unless such mechanism is expressly permitted under the applicable regulatory/DISCOM framework.

The Bidder shall be solely responsible for verifying the applicable settlement mechanism and shall appropriately factor its impact into the proposed Solar PV capacity, energy yield, utilization, tariff and overall project economics. No claim for additional cost, compensation, tariff revision or other relief

shall be entertained on account of any restriction or non-availability of such energy settlement/offset mechanism that was reasonably ascertainable at the time of submission of the Bid.

c) Final Capacity:

Subject to NHIT's approval, the final permissible/design AC capacity shall be the lower of:

- Maximum Regulatory/Load-Based Capacity; and
- Consumption/Energy-Settlement-Based Capacity.

The Bidder shall design the Solar PV Plant up to the capacity so determined, subject to actual site feasibility, structural adequacy, electrical conditions, applicable DISCOM requirements and the prevailing energy settlement mechanism.

Where a lower capacity is proposed by the Bidder, the Bidder shall provide adequate technical, regulatory and/or energy-settlement-based justification for such lower capacity.

22.5 Bidder Verification of Capacity

The Bidder shall independently verify:

- sanctioned/contracted load;
- six-month electricity consumption;
- maximum demand;
- applicable State/DISCOM capacity limits;
- existing solar generation, if any;
- applicable net-metering/grid-connectivity provisions; and
- site and electrical infrastructure constraints.

The Bidder shall submit the basis of capacity determination along with its technical proposal.

The indicative data provided by NHIT shall not relieve the Bidder of its responsibility to verify the same.

22.6 Site Feasibility

The capacity determined under Clause 22.4 shall be the target/design capacity for the respective Toll Plaza/electrical connection and shall be subject to detailed site survey, structural assessment, shadow analysis, electrical infrastructure, safety requirements and applicable statutory/DISCOM approvals.

Where the available rooftop, canopy or ground area is insufficient to accommodate the target/design capacity, the Successful Bidder shall, at its own cost and risk, explore and implement appropriate

technically feasible installation arrangements, including suitable elevated structures, in accordance with Clause 3.8, to achieve such capacity.

The Bidder shall not reduce the proposed capacity solely on account of non-availability or inadequacy of readily available installation area, where such constraint can reasonably be addressed through an alternative permissible mounting arrangement.

Where, despite adopting technically feasible installation arrangements, the target/design capacity cannot be achieved due to statutory, DISCOM, electrical, structural or other demonstrable technical constraints, the Bidder shall identify the constraint and submit the technically feasible capacity with supporting justification. The final capacity to be considered for implementation shall be subject to NHIT's approval, which shall be final and binding.

22.7 Tarpongi Toll Plaza – LHS/RHS

For bidding and commercial purposes, Tarpongi LHS and Tarpongi RHS shall be treated as one Toll Plaza.

However, LHS and RHS shall be treated as separate electrical connections for technical capacity determination, metering, interconnection, synchronization, DISCOM approvals and O&M.

The capacity calculation under Clause 22.4 shall therefore be carried out separately for LHS and RHS.

22.8 Plaza-wise Proposed Capacity Schedule

The Bidder shall declare the proposed Solar PV capacity for each Toll Plaza/electrical connection in the following format.

Sl. No.	State	Toll Plaza	Electrical Connection	Proposed AC Capacity (kW)
1	Andhra Pradesh	Gadanki	Main Connection	
2	Andhra Pradesh	Marripalem	Main Connection	
3	Andhra Pradesh	Veeravalli	Main Connection	
4	Maharashtra	Kelapur	Main Connection	
5	Assam	Galia	Main Connection	
6	Andhra Pradesh	Mahasamudram	Main Connection	
7	Andhra Pradesh	Madapam	Main Connection	
8	Rajasthan	Undavariya	Main Connection	
9A	Chhattisgarh	Tarpongi	LHS Connection	

Sl. No.	State	Toll Plaza	Electrical Connection	Proposed AC Capacity (kW)
9B	Chhattisgarh	Tarpongi	RHS Connection	
10	Andhra Pradesh	Nathavalasa	Main Connection	
11	Uttar Pradesh	Faridpur	Main Connection	
12	Rajasthan	Aroli	Main Connection	
13	Karnataka	Hebbalu	Main Connection	
14	Assam	Dahalapara	Main Connection	
15	Assam	Patgaon	Main Connection	
16	Uttar Pradesh	Maigalganj	Main Connection	
17	Uttar Pradesh	Chhapar	Main Connection	
18	Chhattisgarh	Mudhipar	Main Connection	
19	Uttar Pradesh	Usaka	Main Connection	
20	Karnataka	Kognoli	Main Connection	
21	Karnataka	Bankapur	Main Connection	
22	Karnataka	Chalageri	Main Connection	
23	Andhra Pradesh	Dukkavanipalem	Main Connection	
24	Uttarakhand	Bahadrabad	Main Connection	
25	Chhattisgarh	Bhojpuri	Main Connection	
26	Telangana	Pullur	Main Connection	

22.9 Tariff Firmness

The quoted tariff shall remain firm and non-escalable throughout the PPA tenure, except for such adjustments as may be expressly provided under the executed PPA

The Bidder shall factor into its tariff all costs and risks that are reasonably foreseeable as on the Bid Submission Date, including equipment prices, financing costs, insurance, O&M, statutory requirements, DCR/non-DCR requirements, ALMM requirements, applicable import restrictions, metering requirements and DISCOM approvals.

22.10 Commercial Evaluation

Financial evaluation shall be undertaken State-wise based on the uniform tariff quoted for that State, subject to the Bidder being technically responsive and meeting all requirements of the RFP.

NHIT shall have the right to award different States to different Bidders and shall have no obligation to award all States to a single Bidder.

22.11 Financial Bid Submission Format

IMPORTANT – MANDATORY FINANCIAL BID

The Financial Offer shall be submitted strictly in the format prescribed below. The Bidder may participate in one or more States and shall quote (i) one uniform tariff in ₹/kWh for each State in which it participates and (ii) the Proposed Consolidated AC Capacity for such State, covering all Toll Plazas identified for that State.

Participation in all States shall not be mandatory. A Bidder may leave the Financial Offer blank for any State in which it does not wish to participate. However, where a Bidder participates in a particular State, it shall quote for all Toll Plazas identified for that State. A Financial Offer covering only selected Toll Plazas within a State shall be treated as non-responsive for that State and shall not be considered for State-wise financial evaluation.

The plaza-wise capacities declared by the Bidder under Clause 22.8 and the resulting Proposed Consolidated AC Capacity for each State are required for technical assessment and project planning purposes and shall be treated as indicative only. Such proposed capacity shall not constitute the basis for financial evaluation or determination of L1.

The State-wise tariff quoted by the Bidder shall be the sole basis for financial evaluation and determination of L1 for the respective State, subject to the Bidder meeting all applicable eligibility, technical, commercial and other requirements of the RFP.

The final Solar PV capacity to be implemented at each Toll Plaza/electrical connection shall be determined by NHIT based on site-specific feasibility, applicable regulatory/DISCOM requirements, sanctioned/contracted load, applicable energy settlement mechanism, available space, structural and electrical conditions, consumption characteristics and other project-specific considerations, in accordance with this RFP.

The Successful Bidder shall be required to accommodate and implement the final Solar PV capacity so determined by NHIT, in consultation with the Successful Bidder, at the State-wise tariff quoted in its Financial Offer. The Successful Bidder shall accordingly make necessary adjustments to the plaza-wise capacity, design and configuration, as required to align with the final capacity determined by NHIT, subject to applicable technical, regulatory and site-feasibility requirements.

The Bidder shall take into account, while quoting its State-wise tariff, the potential variation between the indicative capacity proposed in its Financial Offer and the final capacity that may be determined in accordance with this RFP.

The Bidder shall submit its State-wise Financial Offer in the following format:

Sl. No.	State	Toll Plaza(s) Covered	Proposed Consolidated AC Capacity for the State (kW)	Financial Offer – Tariff (₹/kWh)
1	Andhra Pradesh	Gadanki; Marripalem; Veeravalli; Mahasamudram; Madapam; Nathavalasa; Dukkavanipalem		
2	Maharashtra	Kelapur		
3	Assam	Galia; Dahalapara; Patgaon		
4	Rajasthan	Undavariya; Aroli		
5	Chhattisgarh	Tarpongi LHS/RHS; Mudhipar; Bhojpuri		
6	Uttar Pradesh	Faridpur; Maigalganj; Chhapar; Usaka		
7	Karnataka	Hebbalu; Kognoli; Bankapur; Chalageri		
8	Uttarakhand	Bahadrabad		
9	Telangana	Pullur		

Notes:

1. The Bidder shall quote one uniform tariff per State and shall not quote different tariffs for individual Toll Plazas within the same State.
2. The Bidder may participate in one or more States. It shall not be mandatory for a Bidder to quote for all States.
3. Where the Bidder participates in a State, it shall quote for all Toll Plazas identified for that State.
4. Tarpongi LHS and RHS shall constitute one Toll Plaza for tendering and commercial purposes but two separate electrical connections for technical, capacity, metering, interconnection and O&M purposes.
5. The quoted tariff shall be inclusive of all costs and obligations specified under this RFP and the subsequent PPA arrangement.

6. The State-wise tariff shall form the sole basis of financial evaluation and determination of L1 for the respective State. The Proposed Consolidated AC Capacity shall not be used as a parameter for financial ranking or determination of L1.
7. The Proposed Consolidated AC Capacity submitted by the Bidder shall be indicative and shall be subject to final determination in accordance with the provisions of this RFP.
8. The Successful Bidder shall be required to implement the final capacity determined by NHIT, in consultation with the Successful Bidder, at the State-wise tariff quoted in its Financial Offer, subject to the applicable technical, regulatory, site-feasibility and other requirements specified in this RFP.

Indicative Nature of Bidder-Declared Capacity

The Bidder shall submit its Financial Offer strictly in the format prescribed under this Clause. The State-wise capacity indicated by the Bidder shall be based on the plaza-wise capacities declared under Clause 22.8 and shall be treated as indicative, subject to final determination by NHIT based on site feasibility, sanctioned/contracted load, available space, applicable DISCOM/regulatory requirements and other project-specific considerations. NHIT's determination of the final Solar PV capacity to be installed at each Toll Plaza/electrical connection shall be final and binding for project implementation.

The Bidder shall quote one uniform tariff in ₹/kWh for each State for all Toll Plazas identified for that State, along with the corresponding consolidated AC capacity. The quoted tariff shall remain firm in accordance with Clause 22.10.

23. Dispute Resolution & Governing Law

The executed PPA shall specify the applicable law, jurisdiction and mechanism for resolution of disputes, claims and disagreements.

ANNEXURES

All Annexures below shall form an integral part of the RFP.

Annexure A – Toll Plaza List

Sl.	Plaza
1	Gadanki
2	Marripalem
3	Veeravalli
4	Kelapur
5	Galia
6	Mahasamudram
7	Madapam

Sl.	Plaza
8	Undavariya
9	Tarpongi LHS/RHS – One Plaza; Two Separate Electrical Connections
10	Nathavalasa
11	Faridpur
12	Aroli
13	Hebbalu
14	Dahalapara
15	Patgaon
16	Maigalganj
17	Chhapar
18	Mudhipar
19	Usaka
20	Kognoli
21	Bankapur
22	Chalageri
23	Dukkavanipalem
24	Bahadrabad
25	Bhojpuri
26	Pullur

Annexure B – Site-wise Geo-Code & DISCOM Schedule

Sl.	Plaza	Code	City	State	Latitude	Longitude	DISCOM
1	Gadanki	352054	Tirupati	Andhra Pradesh	13.478008	79.187744	Southern Power Distribution Company of Andhra Pradesh Limited
2	Marripalem	352060	Anakapalli	Andhra Pradesh	17.747567	83.068989	APEPDCL

Sl.	Plaza	Code	City	State	Latitude	Longitude	DISCOM
3	Veeravalli	352056	East Godavari	Andhra Pradesh	16.985222	81.476108	Eastern Power Distribution Company Of Andhra Pradesh Limited
4	Kelapur	340023	Yavatmal	Maharashtra	20.019318	78.540218	Maharashtra State Electricity Distribution Co. Ltd.
5	Galia	378012	Bongaigaon	Assam	26.442344	91.048828	Assam Power Distribution Company Limited
6	Mahasamudram	352020	Chittoor	Andhra Pradesh	13.194931	79.017203	APEPDCL
7	Madapam	352030	Srikakulam	Andhra Pradesh	18.377369	84.000389	Eastern Power Distribution Company Of Andhra Pradesh Limited
8	Undavariya	330077	Sirohi	Rajasthan	24.633564	72.907054	Jodhpur Vidyut Vitran Nigam Limited
9	Tarpongi LHS/RHS – One Plaza; Two Separate Electrical Connections	545104	Baloda Bazar–Bhatapara	Chhattisgarh	21.483056	81.690850	Chhattisgarh State Power Distribution Company Limited.
10	Nathavalsa	352022	Vizianagaram	Andhra Pradesh	18.057536	83.520792	Eastern Power Distribution Company Of Andhra Pradesh Limited

Sl.	Plaza	Code	City	State	Latitude	Longitude	DISCOM
11	Faridpur	520036	Bareilly	Uttar Pradesh	28.234686	79.524061	Madhyanchal Vidyut Vitran Nigam Limited
12	Aroli	330096	Bhilwara	Rajasthan	25.091152	75.198814	Ajmer Vidyut Vitran Nigam Limited
13	Hebbalu	356020	Davanagere	Karnataka	14.375717	76.106739	BESCOM
14	Dahalapara	378007	Bongoigaon	Assam	26.476602	90.712074	Assam Power Distribution Company Limited
15	Patgaon	378009	Kokrajhar	Assam	26°33'54.37"	90°14'17.63"	Assam Power Distribution Company Limited
16	Maigalganj	536057	Lakhimpur Kheri	Uttar Pradesh	27.739219	80.296342	Madhyanchal Vidyut Vitran Nigam Limited
17	Chhapar	320098	Muzaffarnagar	Uttar Pradesh	29.585853	77.778456	Pashchimanchal Vidyut Vitran Nigam Limited
18	Mudhipar	349011	Bilaspur	Chhattisgarh	21°58'1.47	82° 5'53.45	Chhattisgarh State Power Distribution Company Limited (CSPDCL)
19	Usaka	320071	Jalaun	Uttar Pradesh	26.036608	79.577976	Dakshinanchal Vidyut Vitran Nigam Limited
20	Kognoli	356018	Belagavi	Karnataka	16.542200	74.318250	Hubli Electricity Supply Company Limited (HESCOM)
21	Bankapur	356016	Haveri	Karnataka	14.910469	75.279383	HESCOM
22	Chalageri	356019	Haveri	Karnataka	14.556822	75.728050	HESCOM
23	Dukkavani	352059	Visakhapatnam	Andhra	17.888197	83.345219	APEPDCL

Sl.	Plaza	Code	City	State	Latitude	Longitude	DISCOM
	palem			Pradesh			
24	Bahadrad ad	326007	Haridwar	Uttarakhand	29.911381	78.019831	Uttarakhand Power Corporation Limited
25	Bhojpuri	349012	Bilaspur	Chhattisgar h	21.932378	82.011911	Chhattisgarh State Power Distribution Company Limited.
26	Pullur	350006	Mahabubnagar	Telangana	15.887742	78.016978	Southern Power Distribution Company of TG Limited

Tarpongi LHS and RHS shall use the same plaza geo-reference where applicable, but their electrical connection data, interconnection points and meters shall be recorded separately.

Annexure C – Technical Specifications & Minimum Requirements

- Grid-interactive rooftop Solar PV system suitable for the applicable State/DISCOM grid.
- PV modules, inverters and BOS compliant with applicable BIS/IEC, government/MNRE and Quality Control Order requirements.
- Corrosion-resistant mounting structures designed for site-specific wind, structural and environmental conditions.
- DC/AC cabling, isolators, protection, surge protection, earthing and lightning protection as per applicable standards.
- Anti-islanding, grid synchronization, power-quality and protection functions as applicable.
- Remote monitoring/IoT/SCADA with site and portfolio access for NHIT.
- Revenue/bi-directional metering arrangement as required by the applicable regulatory framework.
- Minimum PR of 75% at commissioning; minimum annual CUF of 15%; system availability greater than 98%; and minimum design life of 25 years, subject to the applicable measurement methodologies and permitted exclusions.
- All civil, structural, electrical, safety, access and restoration works necessary for complete installation.

Annexure D – Plaza-wise Sanctioned / Contracted Load from Third-Party Energy Bill Audit Reports

The following sanctioned / contracted load values are taken from the available third-party Energy Bill Audit Reports provided for the respective plazas. They are included as reference baseline data for RFP preparation and shall not be construed as the final PV-sizing criterion. The selected bidder shall verify the current utility record, connected load, contract demand, recorded MD/RMD, future load requirements and applicable DISCOM rules before final design and interconnection.

Sl.	Plaza	Sanctioned / Contracted Load	Audit terminology / note
1	Gadanki	300 kVA	Current contracted demand
2	Marripalem	48 kW	Current contracted load
3	Veeravalli	160 kVA	Current contracted demand
4	Kelapur	20 kW	Sanctioned / connected load
5	Galia	50 kW connected; 59 kVA contracted	Audit reports both connected load and contracted/billing demand
6	Mahasamudram	43 kW	Current contracted load
7	Madapam	36 kW	Sanctioned load
8	Undavariya	100 kVA	Current contract demand; bills use 75 kVA minimum billing demand
9	Tarpongi LHS/RHS – One Plaza; Two Separate Electrical Connections	LHS: 100 kW; RHS: 60 kW	Separate contracted loads for the two electrical connections
10	Nathavalasa	140 kVA	Current contracted MD
11	Faridpur	100 kVA	Current sanctioned load
12	Aroli	40 kW	Connected / sanctioned load
13	Hebbalu	125 kVA	Current contract demand
14	Dahalapara	15 kW / 15 kVA	Sanctioned / contracted load
15	Patgaon	15 kW / 15 kVA	Sanctioned / contracted load
16	Maigalganj	200 kVA	Sanctioned load
17	Chhapar	63 kVA	Current sanctioned load
18	Mudhipar	49 kW	Sanctioned load
19	Usaka	53 kVA	Current sanctioned load / contracted-load reference in audit
20	Kognoli	35 kW	Current sanctioned load
21	Bankapur	225 kVA	Current contract demand
22	Chalageri	125 kVA	Current contract demand
23	Dukkavanipalem	75 kW	Current contracted load
24	Bahadrabad	75 kW / 89 kVA	Current contracted load as reported in audit

Sl.	Plaza	Sanctioned / Contracted Load	Audit terminology / note
25	Bhojpuri	36 kW	Sanctioned load
26	Pullur	140 kVA	Current CMD

Important – Tarpongi: Tarpongi LHS/RHS is one plaza for tendering, bid evaluation, award and PPA coverage, but the third-party audit reports show two separate electrical connections. The audit baseline shall therefore be recorded separately as LHS = 100 kW and RHS = 60 kW. PV capacity, electrical interconnection, metering, synchronization, DISCOM approvals and load verification shall be performed separately for each connection, while the commercial/plaza-level reporting may be consolidated.

Annexure E – Audit Load Data: Bidder Verification Schedule

The bidder shall verify the following before final engineering. Any discrepancy between the third-party audit baseline, current utility records and site conditions shall be identified in the bidder's site survey report and shall not be silently assumed. This verification shall expressly include the actual available land/roof/canopy area, dimensions, obstructions, access, setbacks, shadow-free area and structural suitability.

Sl.	Plaza	Third-Party Audit Baseline	Current Utility Record	Connected Load Verified	MD/RMD Verified	PV Design Basis
1	Gadanki	300 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
2	Marripalem	48 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
3	Veeravalli	160 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
4	Kelapur	20 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
5	Galia	50 kW connected; 59 kVA contracted	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
6	Mahasamudram	43 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
7	Madapam	36 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
8	Undavariya	100 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]

Sl.	Plaza	Third-Party Audit Baseline	Current Utility Record	Connected Load Verified	MD/RMD Verified	PV Design Basis
9	Tarpongi LHS/RHS – One Plaza; Separate Electrical Connections	LHS – 100 kW	RHS – 60 kW	[Bidder verify separately]	[Bidder verify separately]	[Bidder verify separately]
10	Nathavalasa	140 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
11	Faridpur	100 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
12	Aroli	40 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
13	Hebbalu	125 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
14	Dahalapara	15 kW / 15 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
15	Patgaon	15 kW / 15 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
16	Maigalganj	200 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
17	Chhapar	63 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
18	Mudhipar	49 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
19	Usaka	53 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
20	Kognoli	35 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
21	Bankapur	225 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]

Sl.	Plaza	Third-Party Audit Baseline	Current Utility Record	Connected Load Verified	MD/RMD Verified	PV Design Basis
22	Chalageri	125 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
23	Dukkavanipalem	75 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
24	Bahadrabad	75 kW / 89 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
25	Bhojpuri	36 kW	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]
26	Pullur	140 kVA	[Bidder verify]	[Bidder verify]	[Bidder verify]	[Bidder verify]

The third-party audit load values are reference inputs only. For PV sizing, the bidder shall consider the verified connected/sanctioned load, contract demand, daytime consumption profile, ToD settlement, existing solar generation, electrical infrastructure, available shadow-free area, structural capacity and applicable DISCOM limits.

Availability

The following site-wise space availability information is reproduced from the space-availability data furnished by NHIT. It is indicative/reference information only and shall not be treated as a guaranteed or committed area for Solar PV installation. The bidder shall conduct a detailed site inspection and independently verify actual dimensions, usable/shadow-free area, obstructions, access, setbacks, structural adequacy, existing installations, land/building constraints and all other site conditions before finalizing the technical proposal, PV capacity, layout and commercial assumptions. NHIT shall not be responsible for any discrepancy, variation, shortfall, obstruction or change between the indicative information provided herein and actual site conditions.

The space figures are indicative reference data only. The Bidder shall independently verify all dimensions, usable/shadow-free area, obstructions, access, setbacks, structural adequacy and other site conditions before finalizing the technical and commercial proposal.

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
1	Gadanki	21,340.00	1,409.00	0.00	5,613.90	22,749.00 Plaza Premises: 21,340 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: 50 kW capacity Solar Plant is operational on Plaza Canopy.
2	Marripalem	2,535.00	1,140.00	0.00	11,116.27	3,675.00 Plaza Premises: 2,535 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: 63.6 kW capacity Solar Plant is operational on Plaza Canopy.
3	Veeravalli	107,580.00	1,735.00	6,222.00	11,695.10	115,537.00 Plaza Premises: 107,580 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: 60 kW capacity Solar Plant is available on Plaza Canopy, but not

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
						operational. Half portion of canopy (approx. 6,000 sq. ft.) is still vacant and can be used for further solar installations.
4	Kelapur	0.00	0.00	0.00	2,819.60	0.00 Plaza Premises: Space not available within plaza premises. Roof Top: Space not available for roof top solar installation. Toll Plaza Canopy: Manless Plaza, canopy not available.
5	Galia	4,305.56	0.00	5,295.84	5,570.05	9,601.40 Plaza Premises: 4,306 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Space not available for roof top solar installation. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
6	Mahasamudram	0.00	0.00	4,538.00	4,316.69	4,538.00 Plaza Premises: Space not available within plaza premises. Roof Top: Space not available for roof top solar installation. Staggered Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
7	Madapam	12,000.00	1,686.00	14,252.00	14,454.41	27,938.00 Plaza Premises: 12,000 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
8	Undavariya	0.00	0.00	5,166.00	4,874.47	5,166.00 Plaza Premises: Space not available within plaza premises.

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
						Roof Top: No space is available on the administrative building rooftop due to the presence of water tanks, network poles, and AC outdoor units. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
9	Tarpongi	12,443.00	3,296.00	0.00	19,165.34	15,739.00 Plaza Premises: 12,443 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Staggered Toll Plaza Canopy: Not able to sustain dead load of solar plant.
10	Nathavalasa	3,376.00	2,118.00	0.00	14,662.38	5,494.00 Plaza Premises: 3,376 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: 100 kW capacity Solar Plant is available on Plaza Canopy.
11	Faridpur	16,145.87	2,394.34	11,194.47	10,702.66	29,734.68 Plaza Premises: 16,146 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
12	Aroli	0.00	0.00	5,651.00	5,773.06	5,651.00 Plaza Premises: Space not available within plaza premises. Roof Top: Space not available for roof top solar installation. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
13	Hebbalu	0.00	1,200.00	13,000.00	14,361.94	14,200.00 Plaza Premises: Space not available within plaza premises. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
14	Dahalapara	17,560.00	1,533.00	14,520.00	14,950.92	33,613.00 Plaza Premises: 17,560 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
15	Patgaon	1,500.00	0.00	0.00	5,308.24	1,500.00 Plaza Premises: 1,500 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Space not available for roof top solar installation. Toll Plaza Canopy: The canopy is not suitable for solar panels as it is constructed with CGI sheet roofing and lacks the required structural strength.
16	Maigalganj	21,527.82	2,394.34	11,194.47	12,335.05	35,116.63 Plaza Premises: 21,528 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
17	Chhapar	134,629.12	2,195.83	9,640.96	10,509.01	146,465.91 Plaza Premises: 134,629 sq. ft. land is available and feasible

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
						for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Staggered Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
18	Mudhipar	1,936.00	1,396.00	0.00	15,595.39	3,332.00 Plaza Premises: 1,936 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Not able to sustain dead load of solar plant.
19	Usaka	2,807.94	3,295.83	7,864.39	8,222.27	13,968.16 Plaza Premises: 2,808 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building, Maintenance Block and Medical Aid Post. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
20	Kognoli	0.00	0.00	0.00	11,234.58	0.00 Plaza Premises: Space not available within plaza premises. Roof Top: New plaza building is proposed; construction has not started due to land acquisition issue. Toll Plaza Canopy: Manless Plaza, canopy not available.
21	Bankapur	0.00	0.00	0.00	12,086.30	0.00 Plaza Premises: Space not available within plaza premises. Roof Top: Space not available for roof top solar installation. Toll Plaza Canopy: Shifting of toll plaza is planned.
22	Chalageri	0.00	0.00	9,600.00	10,272.07	9,600.00

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
						Plaza Premises: Space not available within plaza premises. Roof Top: Space not available for roof top solar installation. Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
23	Dukkavanipalem	2,535.00	1,140.00	0.00	11,607.30	3,675.00 Plaza Premises: 2,535 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: 55 kW capacity Solar Plant is operational on Plaza Canopy.
24	Bahadrabad	0.00	2,195.83	9,640.96	9,505.90	11,836.79 Plaza Premises: Existing toll plaza is coming part of Haridwar Spur and shall be dismantled. New Toll Plaza having 7+7 is proposed and is under approval of competent Authority. Roof Top: Solar plant can be installed on the Admin Building. Staggered Toll Plaza Canopy: Load bearing capacity of plaza canopy to be studied for canopy solar installation.
25	Bhojpuri	1,939.00	1,394.00	0.00	15,402.19	3,333.00 Plaza Premises: 1,939 sq. ft. land is available and feasible for Solar Plant Installation. Roof Top: Solar plant can be installed on the Admin Building. Toll Plaza Canopy: Not able to sustain dead load of solar plant.
26	Pullur	0.00	2,522.56	13,568.00	13,568.00	16,090.56 Plaza Premises: Space not available within plaza premises. Roof Top: Solar plant can be installed on the roof of restroom and DG room. Toll Plaza Canopy: Load bearing

Sl.	Toll Plaza	Plaza Premises Area (sq. ft.)	Admin Building Roof Area (sq. ft.)	Canopy Area-1 (sq. ft.)	Canopy Area-2 (sq. ft.)	Indicative Total Area (as provided) & site remarks
						capacity of plaza canopy to be studied for canopy solar installation.

Tarpongi treatment: The space-availability information is presented for Tarpongi as ONE Toll Plaza. However, Tarpongi LHS and RHS remain TWO separate electrical connections. The bidder shall separately verify the actual usable area and electrical feasibility for each side/connection, and no cross-utilization or electrical aggregation between LHS and RHS shall be assumed unless permitted by the applicable regulatory framework and approved by NHIT.

Bidder responsibility / no reliance: The Bidder may undertake a detailed site inspection as part of its due diligence. Whether or not the Bidder undertakes a physical site visit, the Bidder shall remain solely responsible for independently verifying the actual site conditions and for factoring the same into its technical proposal, pricing and implementation plan