Contractor shall be required from time to time to update the SCADA and EMS software, as required for the ongoing adequate operation of the Plant Facility. Such updates shall also be provided to the Employer at no additional costs.

#### 25. INSURANCE

### 25.1 Contractor 's insurance

The Contractor, at his own cost and expense, shall take out and maintain in full force and effect and shall cause its Subcontractors to take out and maintain in full force and effect, throughout the Term of the Contract and any extensions thereof, the following insurance policies from reputable insurers and shall provide the Employer with copies of the corresponding insurance certificates:

- a) Covering physical loss or damage to the all plant facilities at the Site, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage for the entire term of the contract.
- b) Workers compensation insurance, as required by the Applicable Law and Contracts made with employees.
- c) Group Medical Claim, Group Term Policy & Group Personal Accident Insurances covering the financial consequences cause by damage and loss arising from sickness, disease, injury or death of any person employed by the Contractor in respect of the services performed Automobile Public Liability insurance, as required by the Applicable Laws, for all vehicles and automotive equipment owned hired, rented, leased and non-owned by the Contractor and used in the performance of the Services.
- d) Comprehensive General third-party liability insurance including product and contractual liability covering the financial consequences of the liability arising out loss or damage caused to third parties or to the employer as consequence of the performance of the services.
- e) All other insurance like transit insurance (Marine/ Cargo/ others as applicable), Construction All Risk, Erection All Risk, workmen compensation, fire, third party liability, insurance against Insurance against theft, fire, act of God, Contractor's Equipments, machinery breakdown policy, business interruption insurance, Property damage Insurance & Environmental risk insurance as required during the O&M period of the Plant shall be in the contractor's scope & shall borne by the Contractor.

The Service Provides shall ensure that under the aforementioned insurance policies, each of the insured has the ability to claim thereunder for a minimum period of three (3) months from the date of expiry of the insurance policies for any claims that arose prior to the expiry date.

The Employer shall be named as co-insured under all insurance policies taken out by the Contractor, except for the Third-Party Liability and Workers' Compensation Insurances, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor, except for the Cargo, Workers' Compensation. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.

<u>Annual Status Report of Insurance Claims</u>: The Contractor shall include the status of Insurance Claims made or required to be made during the year as part of the Annual Reporting Requirements.

25.2 Contractor's Insurance for the Plant Facility

The Contractor shall take out and maintain an insurance policy, seamlessly with CAR policy taken earlier during construction phase, preferably from same insurance company for the plant facility during the entire term of the contract

In the event of any incident or damage or loss that would be reasonably expected to result in an insurance claim, the Contractor shall:

- a) Notify without delay to the Employer
- b) Prepare and conduct all and any claims made under the policies effected by it, and all monies payable by any insurers shall be paid to the Contractor take all reasonable measures to mitigate the loss, its effects and to protect salvage.
- c) Collaborate with Employer and the insurer and provide them with all information and documents they may request.
- d) Arrange immediate reinstatement of the damage to the employer's satisfaction, without waiting for the settlement for the corresponding insurance claim.
- e) Claim in pursuant to the contract to the insurance agencies, if the claim is accepted or rejected or not accepted or partly accepted by the insurance agency then it will not limit the contractor obligation in any case and also if any losses on account of this shall be in the scope of contractor.
- 25.3 General Insurance Requirements
- 25.3.1 The Contractor shall, provide copies of the corresponding insurance certificates mentioned above.

- 25.3.2 If the Contractor fails to effect or maintain any insurance policy required hereunder, or fails to produce copy of the corresponding insurance certificates, the Employer may (but as no obligation), without prejudice to any other right or remedy available to it under the contract, procure the insurance for the relevant coverage and/or pay the premiums due. Such payments shall be recoverable and deducted from the payments to be made to the Contractor by the Employer under the Contract. In the event if Contractor does not pay the premium, then the Employer may pay the premium however in such case the obligations of Contractor to undertake the coverage shall continue as envisaged, irrespective of premium being paid by Employer. The Premium if paid by the Employer shall be recovered from the Annual O&M Fees payable by the Employer to the Contractor.
- 25.3.3 The Contractor shall comply with the conditions stipulated in each of the insurance policies to be affected under the Contract and shall not make any alteration to the terms of any policy subscribed by it so it deviates from the requirements herein.
- 25.3.4 The Contractor must promptly notify to the Employer any notification received from an insurance company regarding any actual alteration to one of their policies.
- 25.3.5 On occurrence of any loss covered by an insurance policy contemplated under *Insurance*, the Contractor shall, as soon as reasonably possible, notify to insurance companies for the policy subscribed by it. The Contractor shall also take any appropriate measure to mitigate the effects to the loss to the maximum extent possible. The Contractor shall assist any assessment mandated by the insurance companies.
- 25.3.6 The required coverages referred to and set forth in this Article 33 (*Insurance*) shall in no way affect or limit the Contractor's liability with respect to its obligations under the Contract.
- 25.4 The Contractor shall also arrange suitable insurance to cover following during the O&M Period:

a) <u>Machinery Breakdown</u>: Electrical & or machinery breakdown of any machinery or other equipment resulting in costly repairs or even replacement of the solar panel.

b) **Business Interruption**: Cover for period of operational downtime i.e., covering the cash flow of the solar business as a result of an insured peril, for example fire or storm damage, machinery breakdown or equipment failure.

c) **<u>Property Damage</u>**: The insurance should cover material damage due to external causes such as fire, theft, vandalism, sabotage, hail damage, snow load, lightning strike, overload, operational mistakes, clumsiness, negligence & theft.

d) **Employers Liability**: Provides cover against the risk of accident from usual workplace risks such as working at height & manual handling during construction & O&M period..

e) **Environmental Risk Insurance**: Environmental damage coverage indemnifies solar system owners of the risk of either environmental damage done by their development or preexisting damage on the development site.

### ANNEXURE 1:

### Scope of Work for Operation and Maintenance

- The Contractor shall prepare the initial Annual Operating Plan for the Plant Facility and shall also indicate the proposed resources (manpower, material & machinery) that would be deployed for O&M.
- ii) The Contractor shall be responsible for the smooth day-to-day operation of the Plant Facility.
- iii) The Contractor shall provide necessary routine and preventive maintenance schedules of the plant for the Employer's approval and shall carry out all routine and preventive maintenance accordingly.
- iv) The Contractor shall perform periodic overhauls and preventive maintenance required for the Plant in accordance with the recommendations of equipment manufacturers and as per the O&M manuals.
- v) Contractor shall perform all break down maintenance and other maintenance in the Plant Facility. The Contractor shall be responsible for achieving the performance guarantee of the plant as indicated in the contract.
- vi) The Contractor shall operate and maintain fire protection system and safety equipment for the plant.
- vii) The Contractor shall do maintenance of Electricity system including overhead lines in the Plant Facility area up to the Point of Common Coupling (PCC) to the grid at the site. Necessary co-ordination shall be made by the Contractor with CSPDCL/SLDC and other agencies as may be required during the Operation and Maintenance term for smooth operation of the plant.
- viii)Contractor shall work in coordination with the Employer or any Employer's designated party to optimize the Plant production.

- ix) The Contractor shall provide required spare plant Equipment, Spare Parts, tools and tackles, consumables required for comprehensive operation and maintenance of the plant facility. The Contractor shall make arrangement to procure required spare parts, or equipment/s as required, overhauling of parts, tools and equipment, required to operate and maintain the Plant in accordance with the recommendations of individual original equipment manufacturer at his own cost. Cost of imported Equipment & spare parts, if any, shall be included in the O&M quoted cost. The List of Consumables, Spare Parts, tools and equipment shall be finalised in consultation with the Employer or Employer's representative. List of recommended spare parts shall be submitted by the Contractor at the beginning of services, however the complete recommended spares will be in the scope of contractor only. In case any equipment or spares is not listed in the mandatory spares list but is required vitally for the operation of the plant, then the same shall be procured and provided by the contractor without any additional cost.
- x) It is the responsibility of the Service Provide to store the materials in appropriate stock yard or container at the site so as to ensure timely availability of the materials.
- xi) The Contractor shall employ only such personnel who are adequately qualified and experienced for operating and maintaining such power generating sets. The Contractor shall ensure that such personnel are on duty at the plant at all times, 24 (twenty-four) hours a day and 7 (seven) days a week commencing from the Date of Operational acceptance.
- xii) Contractor shall carry out all day-to-day operation and maintenance for the Plant Facility as set forth herein. Contractor shall perform the Work and supply all required spare parts in a prudent and efficient manner and in accordance with manufacturers and systems designers' specifications, the Annual Operating Plan for the Plant and all operation and maintenance manuals, all Indian applicable laws including environmental protection, pollution, sanitary, labour act, factory act, employment and safety laws, ("Government Rules") and Prudent Utility Practice. The contractor shall adhere to all labour laws which are applicable and as specified in the EPC contract document.
- xiii)Contractor shall arrange necessary security staff for watch and ward of the Plant Facility round the clock at his own cost, the details of which shall be furnished along with the bid.

xiv)Contractor shall be responsible for:

- Maximizing plant capacity utilization,
- Reducing plant downtime,

- Optimizing the useful life of the equipment of the power plant.
- xv) The Contractor shall maintain all accounting records regarding the facility in accordance with the generally acceptable accounting principles under the Laws of India.
- xvi)The Contractor shall maintain accurate and up-to-date operating logs, records and monthly reports regarding operation and maintenance of the Plant facility (Such records shall be distinctly recorded for Solar PV Plant, in order to have clear data for assessment of any individual component of the Plant Facility) which shall include details of power output, other operating data, repairs performed and status of equipment. All such records to be maintained for a minimum of 60 (sixty) months after the creation of such record or data and for any additional length of time required by regulatory agencies with jurisdiction over the Parties. Upon expiry of term, the Contractor shall hand over all such records to EMPLOYER. However, EMPLOYER shall have access to all such records at any time. Generation and O&M reports should be made available to EMPLOYER on daily and monthly basis in required formats as well as the Quarterly and Annual Performance Reports shall be provided. Contractor shall provide communications as well as daily, weekly, monthly, quarterly and annual reports to the employer in the desired format as per the Contract with the Employer or Employer's Engineer.
- xvii) The Contractor shall develop and implement plans and procedures including those for fire fighting, maintenance planning, procuring and inventory control of stores and spares, plan to meet emergencies, plant safety and security; and such other facilities and systems as may be necessary to commence Contractor's ongoing responsibilities.

xviii) The Contractor shall provide copies of all necessary documents including the following :

- Operation and maintenance manuals shall be prepared and approval shall be accorded from Employer within three months from the date of Operational acceptance.
- Failure Analysis/history/trouble shooting details of all the Equipment
- Identification of Equipment needing preventive maintenance
- List of Vendors indicating name and addresses during operation and maintenance with credentials
- root cause analysis report for any major failure.
- · Record of consumables / spare parts

xix)The Contractor shall be responsible for conveying following details to the Employer on daily basis as well as on monthly basis (by the end of 5th day of each month) by fax/ e-mail giving the detail of plant performance during previous month.

- Power generated at all Solar PV Plant
- Power fed to the grid
- Internal power loss and internal consumption
- Power consumption for captive use (if any)
- Reactive power consumption
- Downtime of Plant Facilities including Solar PV Plant and other infrastructure of the Plant facility.
- xx) The Contractor shall be responsible for liasioning with statutory authorities–and local authorities in order to ensure smooth operation of the Power Plant.
- xxi) Contractor shall provide constant remote surveillance to the Plant Facility
- xxii) Contractor shall provide updates and revisions to Reference Documents, as and when applicable.
- xxiii) Shall implement software updates to control and monitoring systems including EMS/SCADA in order to meet the plant facility operating requirement in consonance with the grid operations and in compliance with the grid codes as applicable during the operation.
- xxiv) Duly and timely provide the Employer (or parties designated by the Employer) with all notifications required under the Contract including in particular such notifications set forth in Certain Notifications by Contractor;
- xxv) Contractor shall provide access to the Employer to all data for the Plant Facility from the EMS including the SCADA system.
- xxvi) Contractor shall at all times allow and provide Employer all necessary information for the operation of EMS including the SCADA system (with no notification or approval of access being required unless specifically and otherwise agreed to by the Parties) full, free, unconditional, safe and complete access to the EMS including the SCADA system. Contractor shall monitor and operate the Plant in accordance with the contract and shall ensure smooth operation of the plant.

- xxvii) Provide the training to the Employer's personnel in relation to the operation of the complete plant facility. Training shall be provided to the employer within 190 days before end the contract.
- xxviii) Contractor shall provide the insurances prescribed in insurance. The Contractor shall, with [prior intimation of 5 Business Days] at regular business hours, allow persons duly authorized by the Employer including but not limited to the officials of the insurance company of the Employer, to inspect the Project and provide to such personnel, access to all information which is necessary for their inspection, and is reasonably requested by the Employer. All representatives of the Employer shall strictly adhere to the Applicable Laws and the Health, Safety and Environmental (HSE) practices of the Contractor as provided in the Reference Documents;
- xxix) Contractor shall provide for the watch and ward of the Plant at all times during the Term. The watch and ward deployment plan shall take care of comprehensive Project level security and the Contractor shall take necessary steps to prevent sabotage, theft, vandalism and malicious damage of the assets comprising the Plant, and shall also coordinate and liaison with law enforcement authorities. The Contractor shall take all possible measures to keep the plant operational and secure.
- xxx) Contractor shall Coordinate with SLDC and other related entities/departments/local Panchayats as required for proper operation of the Plant Facilities. Also coordinate with relevant agencies for monthly Joint Meter Readings, meter testing, and any other requirements such as any audit or inspection by the government agencies or authorities, financiers, any designated third-party agency etc. for the Project operations.
- xxxi) Contractor shall be responsible for appointing a Qualified Coordinating Agency at the Pooling Substation Level and shall be responsible for carrying out the forecasting and scheduling of the energy generation from the plant facility (In accordance with the Deviation Settlement Mechanism Regulations, as applicable). Scheduling given by the Contractor is such that no penalty is levied on the Employer due to any deviation of actual generation from scheduling beyond the allowed limit. If any penalty is imposed on the Employer due to such deviations beyond allowed limit the same shall be passed on to the Contractor and the recovery of the same will be done from the O&M Price payable to the Contractor.
- xxxii) Water requirement for module cleaning arrangement and the cost for the same shall be borne by Contractor. The Contractor shall arrange for water on it's own, by ensuring ESIA norms.

- xxxiii) Contractor shall be responsible to comply with all applicable National and International Standards as well as local statutory provisions related to Environmental Protection Regulations, Health and Safety requirement.
- xxxiv) Contractor will be responsible for coordinating with the OEMs for securing warrantee conditions and services from OEMs as per the warrantee of each equipment, as well also for the Project insurance claims.
- xxxv) Contractor shall carry out the performance monitoring for the Plant Facility on continuous basis and in case of any deviation, the Contractor shall perform the due diligence appropriately to find out the actual root cause of such deviation. Any test or inspection required such as thermal imaging, IV characteristics test etc. to analyse such deviation will be the responsibility of the Contractor. Thereafter the corrective action required to mitigate such deviation shall be undertaken by the Contractor without any additional cost.
- xxxvi) Contractor shall be responsible for maintenance of all each and every civil infrastructures parts like Building, cable trench, fencing, drain, plumbing system fire-fighting system, CCTV system, security arrangement, road, earthing, any foundations, anti-weeding, clearing bushes in the solar field etc., as per the direction of employer's Engineering In-charge.

# ANNEXURE 2 Functional Guarantees

## 1. Annual CUF Guarantee

- A. In consideration for the payment of the O&M Price, from the Commencement Date until the end of the Term, the Contractor grants to the Employer the CUF Guarantee on the terms and conditions set forth in the contract.
- B. The Contractor guarantees the annual CUF committed herein over the O&M Period ("Annual CUF Guarantee") from the date of Operational Acceptance. In the event the CUF is less than the Guaranteed CUF, the Contractor shall immediately, upon demand, indemnify the Employer, as liquidated damages and not as penalty, amounts equivalent to remuneration of the equivalent Energy, subject to a maximum of hundred (100%) percent of the Total Annual O&M Price.
- C. Capacity Utilization Factor (CUF) for Solar Plant shall be calculated as per the following formula.

$$CUF = \frac{E_{ac}}{8760 \times P_{ac} \times (1 - DF \times (N-1))_{X} RCF}$$

where,

Eac is the number of units recorded in the plant end ABT meter excluding auxiliary consumption, kWh

8760 refers to the number of hours in non-leap year. It shall be replaced by 8784 hours during leap year

Pac is the plant AC capacity, kW

DF is module degradation factor, 0.7% per year

N is the number of years of operation after operational acceptance of the plant

RCF is the Radiation Correction Factor:

 $RCF = \frac{Measured Irradiation}{Reference Irradiation},$ 

Reference Irradiation for the site = Long Term Average Annual GHI (kWh/m2) at the site as per SolarGIS database.

The Measured Irraditation (GHI<sub>mes</sub>) shall be recorded from the Pyranometer installed in horizontal plane at the site location (average in case of multiple pyranometers). The radiation data of the Pyranometer shall be compared with the Reference Irradiation mentioned above. The radiation data from the Plant Pyranometer shall be used for computation of CUF, except in case of any discrepancy (i.e. more than  $\pm$  10% variation from the Reference Radiation, GHI<sub>ref</sub>), in which case the radiation data from SolarGIS database for the said period will be used for computation of CUF. Missing data (GHI<sub>mes</sub>) from the Plant Pyranometer shall be substituted by average of GHI measured for the same period in the past three (3) days. The plant Pyranometer has to be under CCTV coverage.

### Note:

- i. CUF shall be calculated on annual basis from the date of operational acceptance of the plant till the end of O&M period.
- ii. Module degradation factor will not be considered for first year CUF calculation. It is the Contactor's responsibility to envisage and install extra DC capacity to accommodate any degradation during first year.
- iii. Grid outage hours shall be subtracted from total number of hours in a year. The Contractor shall submit grid outage certification from competent authority of STU/CTU.
- D. Liquidated Damages for Shortfall in Annual CUF for Solar PV Plant

If the Contractor fails to achieve guaranteed annual CUF at the end of First Year, the Contractor shall pay compensation to the Employer (amount to be deducted from the Final Payment at the end of 1 year), an amount equal to the NPV of the estimated shortfall in cash flow resulting over the period of 25 years due to reduced Plant CUF, calculated at a tariff of Rs.3.5 per unit (kWh) and discount rate of 6.5%.

The Contractor may take corrective action during the ensuing year to demonstrate the guaranteed CUF at the end of the 2nd year. In such case, the part of the Final Payment withheld by the Employer on account of Liquidated Damages shall be released and the CUF shall remain unchanged from the tender specifications.

If the Contractor fails to demonstrate the guaranteed CUF at the end of 2<sup>nd</sup> Year as well, the CUF achieved at the end of First Year shall be fixed as the new Guaranteed CUF for the remaining period of this Contract.

## **Illustration:**

Guaranteed Annual Energy (MWhs) after 1 Year (assuming RCF =1):

# $P_{ac} * 8760 * CUF_{e} * (1 - DF \times (N - 1))$

= 100\*8760\*0.23\*(1-0.007\*(1-1) = 2,01,480 MWh

If Actual Generation during First Year = 2,00,000 MWh i.e. CUF = 22.83% Estimated Shortfall in Cash Flows over 25 years:

			Estimated
	Expected		Shortfall in
	Energy as	Estimated	Revenue in
	per	Energy Based	Rs. Crores
	Guaranteed	on First Year	(A-
	CUF	Performance	B)*3.5/10, C
Year	(MUs), A	(MUs), B	
1	201.48	199.9908	0.52122
2	200.0696	198.5909	0.517571
3	198.6593	197.1909	0.513923
4	197.2489	195.791	0.510274
5	195.8386	194.3911	0.506626
6	194.4282	192.9911	0.502977
7	193.0178	191.5912	0.499329
8	191.6075	190.1913	0.49568
9	190.1971	188.7913	0.492032
10	188.7868	187.3914	0.488383
11	187.3764	185.9914	0.484735
12	185.966	184.5915	0.481086
13	184.5557	183.1916	0.477438
14	183.1453	181.7916	0.473789
15	181.735	180.3917	0.47014
16	180.3246	178.9918	0.466492
17	178.9142	177.5918	0.462843
18	177.5039	176.1919	0.459195
19	176.0935	174.792	0.455546
20	174.6832	173.392	0.451898
21	173.2728	171.9921	0.448249
22	171.8624	170.5922	0.444601
23	170.4521	169.1922	0.440952
24	169.0417	167.7923	0.437304
25	167.6314	166.3923	0.433655

**LD applicable** = NPV of Column C calculated at Discount Rate of 6.5%= ₹ 5,96,37,671.83 (to be deducted from the final payment)

(i) In case the EPC Contractor takes corrective action and demonstrates guaranteed CUF at the end of 2nd Year i.e. :

# **LD Applicable** = Shortfall in Generation in the First Year\*Rs.3.5 = (201.48-200)\*3.5/10 = Rs. 0.518 Cr.

The Balance Final Payment Amount shall be released to the EPC Contractor.

- (ii) In case the EPC Contractor fails to demonstrate the guaranteed CUF at the end of 2nd Year, Annual CUF guarantee for the remaining period of the Contract shall be fixed as the CUF demonstrated at the end of First Year, as revised CUF. Liquidated Damages applicable in subsequent years, on account of shortfall in generation, shall be determined with reference to this revised CUF.
- E. Incentives for excess Generation
  - (i) Any excess generation over and above the minimum Expected energy in an year, calculated as per the formula below, shall be entitled to an incentive of 50% of PPA tariff per unit of energy:

Minimum Expected Energy (MWhs) in Nth Year:

Pac, Plant AC capacity (MW)	100
DF, Module degradation factor (%/year)	0.7
N, Number of years of operation after operational acceptance of the plant	N= 1,2,3,15
CUFe, Guaranteed Annual CUF at the end of First Year (%)	23

# $P_{ac} * 8760 * CUF_{e} * (1 - DF \times (N - 1))$

(ii) The incentive under this Clause is subject to the upper limit of 110% of the Minimum Expected Energy in the Nth year (Refer (i) above).

### **Illustration:**

The Minimum Expected Energy in 5<sup>th</sup> Year as per (i) = 100\*8760\*0.23\*(1-0.007\*(4))= 1,95,838.56 MWh PPA Tariff = Rs. 3.5/kWh 50% of PPA Tariff = 50% of Rs. 3.5/kWh = Rs. 1.75/kWh *Case I:* Actual Energy generated in 5<sup>th</sup> Year = 2,00,000 MWh 110% of the Minimum Expected Energy in the 5<sup>th</sup> year = 2,15,422.416 MWh Since 5,00,000 < 5,33,872.944 Generation Incentive = Rs. (2,00,000 - 1,95,838.56)\*1000\*1.75 = Rs. 72,82,520/-*Case II:* Actual Energy generated in 5<sup>th</sup> Year = 2,20,000 MWh Since 2,20,000 > 2,15,422.416, Generation Incentive = Rs.(2,15,422.416 - 1,95,838.56)\*1000\*1.75 = Rs. 3,42,71,748*Case III:* Actual Energy generated in 5<sup>th</sup> Year = 1,90,000 MWh Since 1,90,000 < 1,95,838.56 LD applicable as per Clause D = (1,95,838.56 - 1,90,000)\*1000\*3.5 =Rs. 2,04,34,960/-

- F. In case the Project fails to generate any power continuously for 1 month any time during the O&M period, apart from the force majeure and grid outages as certified by competent authority from STU/ CTU, it shall be considered as "an event of default". In the case of default the entire Contract Performance Security will be forfeited.
- G. Penalty during O&M period against breakdown of other Infrastructure of Plant Facilites that don 't affect the generation of power directly, such as but not limited to, civil infrastructure, water supply system/network, other Infrastructure developed by the Contractor as a Scope of Work for the Project (Section-VII: Scope of Works & Technical Specifications) shall be penalised @ Rs.1000/day, for non-compliance with PM Schedule (Initiation/Completion of Scheduled maintenance Activity as agreed under this Contract) beyond 48 hours. Cumulative value of such penalty shall be limited to 50% of yearly O&M cost. Cumulative value of such penalty shall be limited to 50% of yearly O&M cost.

For the purpose of this Clause, the PM shall be inclusive of, but not limited to, the following PM activities:

Item	Scope of Maintenance Activity	Periodicity
Environmental/Corrosive	White-washing/Application/Re-	Once in every 2
Protective Coatings	application of Distemper,	years under the
	Epoxy coatings	O&M Contract
		period, in
		consultation with
		the Owner
Roads and Access paths	Repair and maintenance of all	Once every year
	roads - Access, Internal and	prior to Monsoon

Water Supply Network	Periphery roads, walkways as well as fences, gates, cable- trenches and outdoor equipment platforms. Repair and Maintenance of Water Supply Network including piping network, valves, pumps etc.	season, in Consultation with the Owner Once Every Year in Consultation with the Owner.
Periphery Lighting	Repair and maintenance of Peripheral Lighting including replacement of non-functional lighting fixtures, Junction Boxes, Conduits etc.	Once every Six Months
Rodent Entry Points	Application/re-application of Anti-rodent protection measures like PUF filling, sealant etc. at Checker/Gland Plates, Cable Entry Points (in PCU/SMU, Switchgear Panels, Buildings, Enclosures)	Once every Six Months
All bolted/tightened structures	Tightening/fasteningofboltsthatareexposedtowinds/vibrationslikeMMSmembers/foundation bolts	Once every Year before onset of Windy season, in consultation with the Owner.
Enclosures of Equipment requiring Temperature and Dust Controlled environment for Normal Operation	Application/re-applicationofinsulation/Dust-Filters/Temperature-controlequipmentatEnclosures/BuildingshousingPCU, Switchgear	Once every Year, consultation with the Owner.

Entire Plant Facility	Oversight management of the	Once every Year,
	hazardous/toxic materials	in consultation
	including its handling and	with the Owner.
	disposal as per Government of	
	India Rules and environmental	
	and safety assessments by a	
	qualified Specialist	

**Note :** The Contractor shall ensure intimation and submission of requisite Reports to the owner at least 15 days prior to initiation of maintenance action for the activity. The

- H. Void
- I. The Penalty specified on account of delays, as specified in Liquidated Damages and Penalty specified on account of deviations in Functional Guarantees as above shall be assessed independent of each other. Above mentioned Penalties specified under this clause of SCC are independent of each other.

# **Recovery of Compensation**

The above compensations shall be deducted from Contract Performance Security (CPS) submitted by the developer.

# Scheduling and Forecasting:

1. The Contractor shall be responsible for appointing a Qualified Coordinating Agency if required by concerned authorities at the Pooling Substation Level for scheduling and forecasting activity. Also the contractor shall be responsible for carrying out the forecasting and scheduling of the energy generation from the plant facility (In accordance with the Deviation Settlement Mechanism Regulations, as applicable). Scheduling given by the Contractors is such that no penalty is levied on the Employer due to any deviation of actual generation from scheduling beyond the allowed limit. If any penalty is imposed on the Employer due to such deviations beyond allowed limit the same shall be recovered from the CPS given by the contractor.

2. The deviation charges, as per applicable regulations, for the difference in units between scheduled and actual generation shall be recovered from the contractor on following basis.

- 2.1 In case of any deviation due to forecasting and scheduling error (above and below 15%), Contractor shall bear the cost/Penalty.
- 2.2 In case of localized thunderstorm/sand storm, SECI shall bear the deviation charges till the time period before which the revision of scheduling is not allowed, as per applicable regulation.
- 2.3 In case if there is a component/Machine/Inverter failure. SECI shall bear the deviation charges on account of such failure till the time period block before which the revision of scheduling is not allowed, affected as per applicable regulation. The contractor shall bear the deviation charges due to such failure beyond such time period.

Appendices

1. Reference Documents



Tender for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 100 MW (AC) Solar PV Project with Land at Chhattisgarh, India

## <u>Annexure – H</u>

## **Demand Assessment**

The List of Energy Drawl Points from the Project and the estimated consumption details are provided below:

S. No.	Location	Voltage (kV)	Contract Demand (MVA)	Duration of data	Annual Consumption (MU)
1	Dipka	132	16.50	Nov 2019 – Oct 2020	210.077
2	Gevra	132	35.00	Nov 2019 – Oct 2020	80.832
3	Kusmunda Domestic	33	4.74	Oct 2019 – Sep 2020	22.661
4	Kusmunda Industrial	33	10.00	Oct 2019 – Sep 2020	24.383
				Total	337.953

# Table 1-1: SECL Load points

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India

<u>Tender No.</u>

ANNEXURE-H

. . . . . .

SECI/C&P/T&D/2021/CG/100

<u>Page 1 of 1</u>

Signature of Bidder



14	15			16	
					A
D					
PLAIN CEMENT CON NATURAL GROUND	ICRETE LEVEL				В
TYPICAL					
HOT DIP GALVANIZI GALVANIZED IRON	ED				
EQUAL					С
TOP & BOTTOM					
			DC		
RUCTURAL STEEL WORKS S	HALL CONFORM T	או או METE 2 IS:2062 G	RADE-E250	).	
MENSIONS TO BE CHECKED		ION OF ST			_
NIZATION ON WIRES SHALL	CONFORM TO IS:48	326 HEAVY /IN.	DUTY.		D
F FENCE SHALL FOLLOW THE	E NATURAL CONTO	UR OF LAN	ID.		
D WIRE SHALL BE OF MINIMU DRM TO IS:278.	JM 4MM DIA AND C	F APPROVI	ED MAKE. I	T SHALL	
ARBED WIRES SHALL BE INSP	ERTED IN THE SLO	TTED HOLE	AND BIND	ED WITH	
G WIRES.			MN POST		F
EVER CHANGE IN ELEVATION	I/LEVEL.EVERY TE	NTH INTER	MEDIATE P	OST SHALL BE	-
DED WITH A STAY POST.	0.5.14//711-0.5.5	AIL	0015-	00050	
E OF CONCRETE SHALL BE M R IS:456.	25 WITH 20MM NO	VINAL SIZE	GRADED A	GGREGATES	
INFORCEMENT SHALL BE HI	GH STRENGTH TM	T BARS OF	GRADE FE	500D	
ORMING TO IS:786.					F
NG = 50MM, COLUMN = 40MM	& BEAM = 25MM.	LCVV3:			
DIAMETER SHALL BE 2MM LA		DIA.	0.05		
L OF 20MM SQ. SOLID MS BA BARS OR 35MMX5MM THK FL	R WELDED TO IP1	AT SPACIN	BARS AT S	M C/C, WITH 20SQ SUITABLE	
/ALS (MIN. 3 NO OF THE BAR	S/FLATS) SHALL BI	E PROVIDEI	) IN LIEU O	F TOE WALL.	
T OF THE VERTICAL SQ SOLI	D MS BAR WILL VA	RY BASED	ON ACTUA	L NALLAH/DRAIN	G
ON EITHER SIDE OF NALA SH	ALL BE SUPPORTE	D WITH PE	DESTAL &	FOOTING	
IGEMENT WITH A BEAM SPAI	INING ACROSS TH	E NALLAH/F	POND TO S	UPPORT THE	
OUNDATION OF THE STAY PC	STS SHALL BE OF	THE SAME	SIZE AS TH	IAT OF THE	
POSTS.					Ц
HAIN LINK MESH FABRIC SHA M EDGE ANGLES USING 100	LL BE FIXED AT TH x35x5 GI FLATS.	IREE POINT	S EACH TO	) THE TOP AND	П
PART SHALL BE PAINTED W	ITH 2 COATS OF E	POXY PAIN	T OVER 2 C	COATS OF ZINC	
	INO				
	D WIRES SHALL BE	FIXED TO	EACH ARM	OF THE	
PED ANGLE SUPPORTS, ALO	NG WITH 400MM D	AMETER G		INA WIRE.	Ι
NG BETWEEN BOTTOM OF FE	NCE AND GROUN	) LEVEL SH	ALL NOT B	E MORE THAN	
					J
			-		
	DRAWN	CHKD.	APPR.	SHEET	
	DATE	DATE	DATE	REV.	V
LINK FENCE	PART/DW	 /G		SHEET SIZE	n
	NUMBER			1	
RAWING		-		A1	
RAWING		-		A1	

# Detailed Finishing Schedule for Guest House Building

S. No.	Description	Quantity
Α	Flooring	
1	Toilet	
	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete. Colour & Shade to be finalized by Engineer-in-charge.	sqm
2	Bedroom 1, Bedroom 2, Dining, Drawing Room, Kitchen	
	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size 600 X 600 mm Shade & Colour to be finalized by Engineer-in-charge.	sqm
3	Porch	

	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in- Charge. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm
В	Walls	
1	Interior walls of Bedroom 1, Bedroom 2, Dining, Drawing Room, Kitchen, Toilet etc.	
	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	sqm
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm
2	Exterior walls of Bedroom 1, Bedroom 2, Dining, Drawing Room, Kitchen, Toilet, Parapet etc.	
	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	sqm
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm

	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	sqm
3	Wall tiles in toilet and kitchen	
	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Colour & Shade to be finalized by Engineer-in-charge.	sqm
C	Ceiling	
<b>ر</b> 1	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	sqm
D	Doors & Window	

1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non- decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm
2	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 300x16 mm	each
3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 250x10 mm	each
4	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	each
5	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete with twin rubber stopper.	each
6	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length. Second class teak wood.	cum

7	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, all as per directions of Engineer-in-charge. 30 mm thick shutters	sqm
8	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc. Providing and fixing fly proof galvanized M.S. wire gauge as wire meshing to windows and clerestory windows using wire gauge	kg
9	Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm
10	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm
	Stainlass Stool	
1	Roof	
•	SS 304 Ladder to be provided for accessing roof for maintenance purpose.	kg
F	Kitchen & Other Slabs	

1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade.	sqm
G	Sanitary & Plumbing Fixtures	
1	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in- Charge.	Nos.
2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Nos.

3	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board 610x510 mm bowl depth 200 mm	No.
4	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Nos.
5	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm	Nos.
6	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Nos.
7	Providing and fixing toilet paper holder : C.P. brass	Nos.
8	Providing & Fixing of SS body 1.25 litre liquid soap dispenser with simple push lever fitted with liquid soap (one time) including cutting and making good the walls, wherever required.	Nos.
9	Providing & Fixing ABS/Plastic body paper towel dispenser complete with brackets fixed to wall with PVC rawl plug with CP brass screws complete in all respects, including cutting and making good the wall wherever required.	Nos.
10	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	Nos.

11	Fixed bathtub with integral lumbar and arm-rest. Made from premium lucite acrylic sheet & Fibreglass reinforcement with minimum Length 5.5 ft or 1690 mm, Breadth 2.5 ft or 750 mm, Height 16 inches or 395 mm	Nos.
12	Lightweight, Durable, Rustproof overhead Water tank of capacity 1000 L to be provided at roof.	Nos.
Н	Water Proofing	
1	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) Ind course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	sqm

2	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.	sqm
	slabs.	

	<ul> <li>(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerincharge.</li> <li>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</li> <li>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge: With average thickness of 120 mm and minimum thickness at khurra as 65 mm.</li> </ul>	
-	Fire Extinguisher	
	Supply, installation, testing and commissioning ISI marked (IS:15683) portable fire extinguisher, water (gas pressure) type capacity 9 kg with gun metal cap and nozzle and complete in all respects including initial fill and wall suspension brackets as required as per specifications.	No.
J	Light and Fan	
1	Supply & installation of Surface Mounted 18W LED Batten tube light having housing made from CRCA steel sheet with driver etc complete as required.	Nos.

2	Supply & installation of 150mm dia sweep metal body, 1400 RPM Exhaust fan with guard and mounting arrangement.	Nos.
3	Supply & installation of 1200mm dia sweep ceiling fan copper wound with blades white in color, ISI marked and 5 star rated complete with capcitor, down rod, split pin, reel but without regulator complete as required.	Nos.
4	Supply of 12W Sleek surface mounted round LED downlighter luminaire in Porch, Toilet etc.	Nos.
5	Supply of 18W Sleek surface mounted round LED downlighter luminaire in Bedroom, Kitchen, Dining, Drawing Room etc.	Nos.
6	Bedroom 1, Bedroom 2, Drawing Room and Dining Room shall be equipped with appropriate split type air conditioning unit.	Nos.

**NOTE:** All quantities to be worked out from the architectural drawing provided.

# Detailed Finishing Schedule for MCR Building

S. No.	Description	Quantity
Α	Flooring	
1	Toilet Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete with matching skirting. Colour & Shade to be finalized by Engineer-in- charge.	sqm
2	Office Area, Record Room, Scada cum Battery Room, Supervisor Room, Conference Room, Pantry & Passage	
3	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., with matching skirting complete. Size 600 X 600 mm Shade & Colour to be finalized by Engineer-in- charge.	sqm
	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm
в	Walls	
1	Interior walls of Office Area, Record Room, Scada cum Battery Room, Supervisor Room, Conference Room, Pantry & Toilet etc.	
	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	sqm
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm

	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm
2	Exterior walls of Office Area, Record Room, Scada cum Battery Room, Supervisor Room, Conference Room, Pantry, Toilet & Parapet etc.	
	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	sqm
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm
	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	sqm
3	Glass Partition	
	frameless partitions, having machine polished edges. It shall have SS top, bottom and locking arrangement hardwares of approved brand and design. Include door opening where necessary including SS handle of approved design and shape. The toughened glass shall have design/pattern on it Gap between two glass edge shall be filled with colorless silicon sealant. the job shall be completed including all hardwares and cleaning of glasses etc., and as per directions of Engineer In Charge	sqm
	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer- incharge.	sqm
4	Wall tiles in toilet and kitchen	
	rioviding and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Colour & Shade to be finalized by Engineer-in-charge.	sqm
6	Ceiling	
1	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	sqm
2	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm
3	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm

D	Doors & Window	
1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non- decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm
2	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 300x16 mm	each
3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 250x10 mm	each
4	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	each
5	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete with twin rubber stopper.	each
6	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length. Second class teak wood.	cum
7	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, all as per directions of Engineer-in-charge. 30 mm thick shutters	sqm
8	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc. Providing and fixing fly proof galvanized M.S. wire gauge as wire meshing to windows and clerestory windows using wire gauge	kg
9	Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm
10	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm

E	Stainless Steel	
1	Roof	
	for maintenance purpose.	kg
F	Kitchen & Other Slabs	
1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade.	sqm
G	Sanitary & Plumbing Fixtures	
1	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	Nos.
2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Nos.
3	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board 610x510 mm bowl depth 200 mm	No.
4	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Nos.
5	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm	Nos.
6	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Nos.

7	Providing and fixing toilet paper holder : C.P.	Nos.
8	Providing & Fixing of SS body 1.25 litre liquid soap dispenser with simple push lever fitted with liquid soap (one time) including cutting and making good the walls, wherever required.	Nos.
9	Providing & Fixing ABS/Plastic body paper towel dispenser complete with brackets fixed to wall with PVC rawl plug with CP brass screws complete in all respects, including cutting and making good the wall wherever required.	Nos.
10	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	Nos.
11	Lightweight, Durable, Rustproof overhead Water tank of capacity 1000 L to be provided at roof.	Nos.
н	Water Proofing	
1	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) Ind course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) III course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	sqm
2	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.	sqm

	<ul> <li>(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge.</li> <li>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</li> <li>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge: With average thickness of 120 mm and minimum thickness at khurra as 65 mm.</li> </ul>	
	Eiro Evánguiskor	
-	Fire Extinguisher	
	Supply, installation, testing and commissioning ISI marked (IS:15683) portable fire extinguisher, water (gas pressure) type capacity 9 kg with gun metal cap and nozzle and complete in all respects including initial fill and wall suspension brackets as required as per specifications.	No.
J	Light and Fan	
1	Supply & installation of Surface Mounted 18W LED Batten tube light having housing made from CRCA steel sheet with driver etc complete as required.	Nos.
2	Supply & installation of 150mm dia sweep metal body, 1400 RPM Exhaust fan with guard and mounting arrangement.	Nos.
3	Supply & installation of 1200mm dia sweep ceiling fan copper wound with blades white in color, ISI marked and 5 star rated complete with capcitor, down rod, split pin , reel but without regulator complete as required.	Nos.
4	Supply of 12W Sleek surface mounted round LED downlighter luminaire in Portico, Store, Toilet etc.	Nos.
5	Supply of 18W Sleek surface mounted round LED downlighter luminaire in Office Area, Record Room, Scada cum Battery Room, Supervisor Room, Conference Room, Pantry & Passage etc.	Nos.
6	Scada Room, Office Area, Conference Room and Supervisor Room shall be equipped with appropriate split type air conditioning unit.	Nos.

**Note:** All quantities to be worked out from the architectural drawing provided.





14	15		16	A
HED GROUND LEVEL CAL K INAL BORE OF ROAD IONS ARE IN MILLIMETERS	S UNLESS OTHERW	/ISE SPECIFIE	D.	В
LE THE DRAWING. ONLY I SHALL BE OF M25 WITH 20 IG TO IS:456-2000. MENT BARS SHALL BE OF IFORMING TO IS:1786. BARS SHALL CONFORM 1 I/DEVELOPMENT LENGTH PANCY IN THE DRAWING S BEFORE EXECUTE OF WO HALL BE READ IN CONJUN ER TO MAIN REINFORCEM	DIMENSIONS PROV MM NOMINAL SIZE HIGH YIELD STREM O IS:2502. OF BARS SHALL BE SHALL BE BROUGH RK. CTION WITH THE F ENT:	IDED SHALL B GRADED AGO NGTH TMT BAF 50xDIA OF SM IT TO THE NOT RELEVANT LAY	BE FOLLOWED. GREGATES RS OF GRADE MALL BAR. TICE OF ENGINEER YOUT DRAWINGS.	С
- 50 MM b) PEDESTAL - 40 KING ARRANGEMENT AND TINGS SHALL BE GI FITTIN TURAL STEEL WORKS SHA SHALL BE MIN 5 MM UNLES TED. BE PROVIDED WITH THE SOTH PANELS. DETAILS TO AL FROM SECI. TURAL STEEL, GATE AND N TORAL STEEL, GATE AND N TORAL STEEL, GATE AND N	MM c) COLUMN - 4 DROP RODS SHAL GS. LL CONFORM TO IS SS NOTED OTHERV PROJECT NAME PL D BE PROVIDED ON IAME PLATE SHALL	10 MM .L BE OF HEAV S:2062 GRADE VISE. ONLY SH .ATE (2.5 M X NAME PLATE L BE PAINTED MAKE AND SH	/Y DUTY TYPE. -A & E-250. HOP WELDING SHALL 1 M, 3 MM THICK MS SHALL BE SUBJECT WITH 2 COATS OF	D
E PRIMER.				E
				F
				G
				Н
				J
ATE DRAWING	DRAWN DATE PART/DWO NUMBER-	CHKD. APF DATE DAT	PR. SHEET TE REV. SHEET SIZE A1	К
14	15		16	]







# **SECTION - VI**

# SAMPLE FORMS & FORMATS

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India

Tender No SECI/C&P/TD/2021/CG/100 <u>SFF</u> Page 1 of 56

Signature of Bidder



# Preamble

This Section (Section - VI) of the Bidding Documents [named as Sample Forms and Procedures (FP)] provides proforma to be used by the bidders at the time of their bid preparation and by the Contractor subsequent to the award of Contract.

The Bidder shall complete, sign and submit with its bid the relevant FORMS to be used unamended, in accordance with the requirements included in the Bidding Documents.

The Bidder shall provide the EMD, if applicable in the form included hereafter acceptable to the Employer, pursuant to the provisions in the instructions to Bidders.

The Performance Security (ies) and Bank Guarantee for Advance Payment forms should not be completed by the bidders at the time of their bid preparation. Only the successful Bidder will be required to provide the Performance Security(ies) and Bank Guarantee for Advance Payment, according to one of the forms indicated herein acceptable to the Employer and pursuant to the provisions of the General and Special Conditions of Contract, respectively.

Depending on specific facts and circumstances related to the Bid/ Tender and the contract, the text of the Forms herein may need to be modified to some extent. The Employer reserves the right to make such modifications in conformity with such specific facts and circumstances and rectify and consequent discrepancies, if any. However, modifications, if any, to the text of the Forms that may be required in the opinion of the Bidder/ Contractor shall be effected only if the same is approved by the Employer. The Employer's decision in this regard shall be final and binding.

100 MW (AC) Solar PV Power Project	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
with Land at Chhattisgarh, India	SECI/C&P/TD/2021/CG/100	Page 2 of 56	<u>Bidder</u>



# LIST OF FORMS & FORMAT

Form No.	Description
F-0	COVERING LETTER
F-1	BIDDER'S GENERAL INFORMATION
F-2	FORMAT FOR INDEMNITY BOND TO BE EXECUTED BY THE CONTRACTOR FOR THE REMOVAL / DISPOSAL OF SCRAP/DISPOSAL OF SURPLUS MATERIAL – IF APPLICABLE
F-3	INDEMNITY BOND TO BE EXECUTED BY THE CONTRACTOR FOR THE PLANT HANDED OVER FOR PERFORMANCE OF ITS O&M CONTRACT (ENTIRE SOLAR PHOTO VOLTAIC PLANT) – DURING HANDOVER
F-4A	PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY DEPOSIT (EMD)"
F-4B	PROFORMA OF "BID SECURING DECLARATION" (BSD)"
F-5	INDEMNITY BOND
F-6	NO DEVIATION CONFIRMATION
F-7	DECLARATION REGARDING BANNING AND LIQUIDATION, COURT RECEIVERSHIP ETC.
F-8	DECLARATION ON RESTRICTION ON PROCUREMENT FROM CERTAIN COUNTRIES: MoF OM No 6/18/2019-PPD dated 23.07.2020
F-9	PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE SECURITY"
F-10	SOLAR PLANT DETAILS
F-11	UNDERTAKING FOR INDEMNIFYING THE EMPLOYER AGAINST ANY ENCUMBRANCE ON THE PROJECT LAND TRANSFERRED TO EMPLOYER IN RESPECT OF DEVELOPMENT OF THE SOLAR PV PROJECT
F-12	DECLARATION REGARDING THE PROCUREMENT OF SOLAR INVERTERS & SOLAR MODULES FROM CLASS I LOCAL SUPPLIERS
F-13	BIDDER'S EXPERIENCE
F-14	DISCLOSURE FOR ALMM COMPLIANCE
F-16	FORMAT OF CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL CAPABILITY OF THE BIDDER
F-17	FORMAT FOR JOINT VENTURE AGREEMENT
F-17A	FORMAT FOR POWER OF ATTORNEY FOR JOINT VENTURE AGREEMENT

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
	SECI/C&P/TD/2021/CG/100	Page 3 of 56	<u>Bidder</u>



	Chhallisgam, India
F-18	FORMAT FOR CONSORTIUM AGREEMENT
F-18A	FORMAT FOR POWER OF ATTORNEY FOR CONSORTIUM AGREEMENT
F-19	E-BANKING FORMAT
F-20	PROFORMA OF "BANK GUARANTEE" FOR "ADVANCE PAYMENT"
F-22	LIST OF BANKS
F-23	SHAREHOLDING CERTIFICATE
F-24	POWER OF ATTORNEY FOR BIDDING COMPANY

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
	SECI/C&P/TD/2021/CG/100	Page 4 of 56	<u>Bidder</u>



Form F-0

# **COVERING LETTER**

# (The Covering Letter should be submitted on the Letter Head of the Bidding Company)

Ref.No. \_\_\_\_\_

Date:

From: \_\_\_\_\_ (Insert name and address of Bidding Company)

Tel.#:
Fax#:
E-mail address#

То

Solar Energy Corporation of India Limited (A Government of India Enterprise) 6th Floor, Plate-B, NBCC Office Block Tower-2, East Kidwai Nagar, New Delhi-110023, India

Sub: Bid for "Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 100 MW (AC) Solar PV Project with Land having 15 years plant O&M at Chhattisgarh, India"

Dear Sir / Madam,

 We, the undersigned.... [insert name of the 'Bidder'] having read, examined and understood in detail the tender Document for "Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 100 MW (AC) Solar PV Project with Land having 15 years plant O&M at Chhattisgarh, India" hereby submit our Bid comprising of Techno Commercial Bid and Price 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 tender."

Note: In case a common Company/Companies directly or indirectly hold(s) more than 10% but less than 26% shareholding in more than one Bidder participating in the Tender, each of such Bidders will be required to submit the Disclosure as per the attached format. In such a case, the above-mentioned highlighted declaration/statement will be modified suitably by the bidder. In all other cases, this disclosure is not required & standard covering letter & other forms & formats will be applicable.

2. We give our unconditional acceptance to the tender, dated...... and tender documents attached thereto, issued by Solar Energy Corporation of India Limited, as amended. As a token of our acceptance to the tender documents, the same have been initialled by us and enclosed

100 MW (AC) Solar PV Power Project	<u>Tender No</u>	<u>SFF</u>	Signature of	
with Land at Chhattisgarh, India	SECI/C&P/TD/2021/CG/100	Page 5 of 56	Bidder	



to the Bid. We shall ensure that we execute such tender documents as per the provisions of the tender and provisions of such tender documents shall be binding on us.

3. Bid Capacity

We have bid for the capacity of 100 MW (AC) Solar PV Project along with Land.

4. Bid Processing Fees

We have enclosed a Bid Processing Fees of INR....... (*Insert Amount*), in the form of Demand Draft/ Banker's Cheque no....... (*Insert reference of the DD/ Banker's Cheque*) dated....... (*Insert date of DD/ banker's cheque*) from ....... (*Insert name of Bank providing DD/ banker's cheque*) and valid up to and including ....... in terms of Clause ..... of this tender.

5. Earnest Money Deposit

We have enclosed the Bid Securing Declaration Form as per Format F-4B of the tender documents.

- 6. We have submitted our Price Bid strictly as per this tender, without any deviations, conditions and without mentioning any assumptions or notes for the Price Bid in the said format(s).
- 7. In case we are a Successful Bidder, we shall furnish a declaration at the time of commissioning of the Project to the affect that neither we have availed nor we shall avail in future any Incentive other than received from SECI for implementation of the project.
- 8. Acceptance

We hereby unconditionally and irrevocably agree and accept that the decision made by Solar Energy Corporation of India Limited in respect of any matter regarding or arising out of the tender 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 fulfil our obligations with regard to execution of projects of capacity offered by us.

9. 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 tender documents, in the event of our selection as Successful Bidder. We further undertake and agree that all such factors as mentioned in tender have been fully examined and considered while submitting the Bid.

10. Contact Person

Details of the contact person are furnished as under:

Name	:	
Designation	:	

Company : .....

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
	SECI/C&P/TD/2021/CG/100	Page 6 of 56	<u>Bidder</u>

RECI	SECI's own 100 MW	(AC)	Solar PV Power Plant with Land having 15 years plant O&M at Chhattisgarh. India
सुर्व सहेव SUN FOR EVER	Address	:	
	Phone Nos.	:	
	Fax Nos.	:	
	E-mail address	:	

11. We are enclosing herewith the Envelope-I (Covering Letter, Processing Fees, EMD (If applicable), Bid Securing Declaration etc through Offline and Online, Techno-Commercial documents through online as per clause no. 11.1 of Section - II, ITB) and Envelope II (Price Bids) (through online) containing duly signed formats, each one duly sealed separately, in one original as desired by you in the tender for your consideration as per clause no. 11.0 of Section - II, ITB.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the tender and subsequent communications from Solar Energy Corporation of India Limited. The information submitted in our Bid is complete, strictly as per the requirements stipulated in the tender 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 as specified in BDS from the date of opening of "Techno-Commercial/ Un-priced Bid". 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/ Declaration. Copy of Power of Attorney/ Board Resolution/ Declaration should be enclosed along with Covering Letter.

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
	SECI/C&P/TD/2021/CG/100	Page 7 of 56	<u>Bidder</u>



# Form F-1

# **BIDDER'S GENERAL INFORMATION**

# (To be submitted on the Letter Head of the Bidding Company)

Sr. No.	Description	Remarks
1	Name of the Bidder (Incase of JV/ Consortium, name of all the members to be indicated and lead member to be identified)	
2	Status of the Firm	
3	Mailing Address of Registered Office	
4	Mailing Address of Operation Office	
5	E-mail	
6	Web site	
7	Authorized Contact Person(s) with Name, Designation, Address and Mobile Phone No., E- mail address / Fax No. to whom all references shall be made	
8	Year of Incorporation	
9	Number of Years in Operation	
10	ISO Certifiation Yes/No	
11	Name of the Banker	
12	Branch Details of Bank	
13	Type of Account with Account Number	
14	IFSC Code	
15	Permanent Account Number (PAN) of the Bidder	(Copy of PAN Card to be enclosed)
16	Whether the Vendor is registered/ Likely to be registered under GST	Yes or No : If Yes, then customer will be treated as registered customer & he will have to provide further

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
	SECI/C&P/TD/2021/CG/100	Page 8 of 56	<u>Bidder</u>



# SECI's own 100 MW (AC) Solar PV Power Plant with Land having 15 years plant O&M at

	Chhattisgarh, India	
		details as stated on the below left hand side
17	GST ID (Proof to be submitted – GST No acknowledgement OR Email from Gol)	
18	GSTN Address	

Sr. No.	Description	Remarks	
19	PF Registration Number with Details	(Copy of Registration to be enclosed)	
20	ESI Registration Number with Details	(Copy of Registration to be enclosed)	
21	Have the Bidder/ Company ever been debarred by any Govt. Dept./ Undertaking for undertaking any work	Yes/No (If answer is YES, please provide details)	
22	Reference of any document information attached by the Bidder other than specified in the tender.		
23	Whether the Bidder wishes to form a Project Company for execution of work	Yes/No	
24	Bidding company is listed in India	Yes/No	
25	Whether company is MSME as on the bidding date	Yes/No	

(Signature of Authorized Signatory)

With Stamp

100 MW (AC) Solar PV Power Project with Land at Chhattisgarh, India	<u>Tender No</u> SECI/C&P/TD/2021/CG/100	<u>SFF</u> Page 9 of 56	<u>Signature of</u> <u>Bidder</u>



# Form F-2

# Indemnity Bond to be executed by The Contractor for The Removal / Disposal of Scrap/Disposal of Surplus Material

## (TO BE EXECUTED ON STAMP PAPER OF APPROPRIATE VALUE)

## **INDEMNITY BOND**

### IN FAVOUR OF

M/s ......(hereinafter referred to as ".....")

2. The Indemnifier(s) for the purpose of execution of its Scope of Work had from time to time procured and stored ......(Details of Material)...... at the Project Site.

4. Now, the scrap ....... (Details of Scrap Material & its Quantity).....and/or surplus ....... (Details of Surplus Material & its Quantity)...... belonging to the Indemnifier(s), requires to be removed by Indemnifier(s) from the Project Site.

NOW THEREFORE THIS INDEMNITY BOND WITNESSETH AS UNDER:

1. That Indemnifier(s) by way of this indemnity requests M/s..... to issue approval in favour of Indemnifier(s) for removal of scrap .......(Details of Scrap Material & its Quantity)......and/or

|--|



surplus .......(Details of Surplus Material & its Quantity)...... belonging to Indemnifier(s), from the project.

2. That the Indemnifier(s) shall ensure clearing of its scrap ...... (Details of Scrap Material & its Quantity).....and/or surplus ...... (Details of Surplus Material & its Quantity)..... by itself, as aforesaid.

3. That Indemnifier(s) in consideration of the premises above, for itself and its respective, executors, administrators and assigns, jointly and severally agree and undertake from time to time and at all times hereafter to indemnify M/s.... and keep M/s..... indemnified from and against all claims, demands, actions, liabilities and expenses which may be made or taken against or incurred by M/s..... by reason of the issue of necessary approval by M/s..... and permitting Indemnifier(s) to remove scrap .......(Details of Scrap Material & its Quantity)......and/or surplus .......(Details of Surplus Material & its Quantity)...... belonging to Indemnifier(s), from the project.

4. That Indemnifier(s) undertakes to indemnify and keep M/s.... harmless from any act of omission or negligence on the part of the Contractor in following the statutory requirements with regard to removal/disposal of scrap and surplus belonging to Indemnifier(s), from the Project Site aforesaid, by the Indemnifier(s). Further, in case the laws require M/s..... to take prior permission of the relevant Authorities before handing over the scrap and/or surplus to the Indemnifier, the same shall be obtained by the Indemnifier on behalf of M/s......

IN WITNESS WHEREOF, the Indemnifier(s), through its authorized representative, has executed these presents on the Day, Month and Year first mentioned above at

......(Name of the Place).....

Indemnifier

.....
 .....

(Authorised Signatory)

100 MW (AC) Solar PV Power Project	<u>Tender No</u>	<u>SFF</u>	<u>Signature of</u>
with Land at Chhattisgarh, India	SECI/C&P/TD/2021/CG/100	Page 11 of 56	<u>Bidder</u>