

**JNNSM: Guidelines for Selection of New Grid Connected Solar Power Projects (Phase 1, Batch 1)**

Guidelines	Solar PV Projects	Solar Thermal Projects
<p><b>Total Capacity and Portfolio of Solar PV and Solar Thermal Technology Projects</b> The total aggregated capacity of the grid connected solar projects to be developed under bundling scheme in <b>Phase-I of JNNSM shall be 1000 MW</b>. This capacity is inclusive of the capacity, which may come up under the Migration Guidelines, which have been already issued. The projects will be selected under this scheme in such a manner so as to provide for deployment of both Solar PV Technology Projects and Solar Thermal Technology projects in a ratio of 50:50, in MW terms.</p>		
<p><b>Phasing Allocation of Capacity: Phase 1 (upto 2012-13)</b></p>	<p>The allocation of capacities would be done in two batches and over two financial years of Phase 1 i.e., 2010-2011 and 2011-2012. The total capacity of Solar PV projects to be selected in first batch i.e., <b>in FY 2010-11 shall be limited to 150MW</b>. The Projects for remaining capacity for Solar PV Projects (i.e. 500MW less 150MW Capacity of Migrated Projects) will be selected in second batch i.e., in FY 2011-12.</p>	<p>However, given the longer gestation period of Solar Thermal Projects, selection of projects for <b>entire capacity of 500 MW</b>, less capacity of migrated projects, shall be done in FY 2010-11.</p>
<p><b>Capacity of Each Project</b></p>	<p>Given the requirement to connect the project to the TRANSCO substations at 33kV and above, the Project capacity shall be <b>5MW±5%</b> in case of Solar PV Projects and no further variation in the capacity of the Project shall be permitted.</p>	<p>Given the requirement to connect the project to the TRANSCO at 33kV and above, <b>the minimum capacity of the Solar Thermal Project shall be 5MW and the maximum capacity of the Project shall be 100MW.</b></p>
<p><b>Request for Selection/ Expression of Interest for Short-listing of Projects</b></p>	<p>NVVN shall invite project developers to participate in the Request for Selection (RfS). Project Developer shall <b>submit the RfS within 30 days</b> of the invitation by NVVN.</p>	<p>NVVN shall invite project developers to participate in the Request for Selection (RfS). The Project Developer shall <b>submit the RfS within 30 days</b> of the issue of invitation by NVVN.</p>
<p><b>Processing Fees</b></p>	<p>The Project Developer shall submit <b>non-refundable processing fee of Rs. 1 Lakh (~\$2,129)</b> along with the RfS for the project.</p>	<p>The project developer shall submit <b>non refundable processing fees of Rs. 1 Lakh (~\$2,129)</b> along with Expression of Interest.</p>
<p><b>Number of Applications by a Company</b></p>	<p>Only <b>one application per Company</b> including its Parent, Affiliate or Ultimate Parent-or any Group Company shall be permitted for development of <b>one project of 5 MW±5%</b> size using a Solar PV Project.</p>	<p>The total capacity of Solar Thermal Projects to be allocated to a Company shall be <b>limited to 100 MW</b>. The Company, including its Parent, Affiliate or Ultimate Parent-or any Group Company may submit application for multiple projects at different locations subject to total maximum of 100MW. The Company shall submit one single application in the prescribed format detailing all projects at multiple locations.</p>
<p><b>Qualification Criteria for Short-Listing of Solar Power Projects</b></p>		
<ul style="list-style-type: none"> <li>• Financial Criteria: Net Worth</li> </ul>	<p>Net Worth of the company should be equal to or greater than the value calculated at the rate of Rs 3 Crore (~\$639K) or equivalent US\$ per MW of the project capacity. The computation of Net Worth shall be based on unconsolidated audited annual accounts of the company. For the purpose of the computation of net worth, the best year in the last four years shall be considered. Company, would thus be required to submit annual audited accounts for the FY 2006-07, 2007-08, 2008-09 and 2009-10 (if available).</p>	<p>Net Worth of the company should be equal to or greater than the value calculated at the rate of Rs 3 Crore (~\$639K) or equivalent US\$ per MW of the project capacity upto 20 MW. For every MW additional capacity, beyond 20 MW, additional net worth of Rs 2 crore (~\$426K) would need to be demonstrated. The computation of Net Worth shall be based on unconsolidated audited annual accounts of the company. For the purpose of the computation of net worth, the best year in the last four years shall be considered. Company, would thus be required to submit annual audited accounts for the FY 2006-07, 2007-08, 2008-09 and 2009-10 (if available).</p>
<ul style="list-style-type: none"> <li>• Technical Criteria</li> </ul>	<p>The technical parameters for Solar PV Projects are at <b>Annexure 1A</b></p>	<p>The technical parameters for Solar Thermal Projects are at <b>Annexure 1B</b></p>
<ul style="list-style-type: none"> <li>• Connectivity with the Grid</li> </ul>	<p>The plant should be designed for interconnection with the State Transmission Utility (STU) at the voltage level of 33 kV or above. Further, the interconnections should be at the substation (substation should be 33kV/132 kV or higher voltage levels) and not the distribution substation. The project developer should indicate to the TRANSCO the location (Tehsil, Village and District as applicable) of its proposed project. In this regard, the Project Developer shall submit a letter from the STU, along with the RfS, confirming technical feasibility of the connectivity of the plant to the grid substation. The responsibility of constructing the transmission line from power plant upto 132/33 kv substation would be of STU.</p>	<p>The plant should be designed for interconnection with the State Transmission Utility (STU) at the voltage level of 33 kV or above. Further, the interconnections should be at the substation (substation should be 33kV/132 kV or higher voltage levels) and not the distribution substation. The project developer should indicate to the TRANSCO the location (Tehsil, Village and District as applicable) of its proposed project. In this regard, the Project Developer shall submit a letter from STU, along with the RfS, confirming technical feasibility of the connectivity of the plant to the grid substation. The responsibility of constructing the transmission line from power plant upto 132/33 kv substation would be of STU.</p>
<ul style="list-style-type: none"> <li>• Water availability</li> </ul>		<p>The Project developer should have made arrangements for water required for the project. The Project developer shall submit the documentary evidence in the form of approval from the State/local authority for the quantity of water required for the plant, along with the application in response to the RfS.</p>
<ul style="list-style-type: none"> <li>• Domestic Content</li> </ul>	<p>Developers are expected to procure their project components from domestic manufacturers as far as possible. In the case of Solar PV Projects to be selected in first batch during FY 2010-11, it will be mandatory for Projects based on crystalline silicon technology to use the modules manufactured in India. For Solar PV Projects to be selected in second batch during FY 2011-12, it will be mandatory for all the Projects to use cells and modules manufactured in India.</p>	<p>Mandatory for Project developers to ensure 30% of local content in all plants/installations under Solar thermal technology. Land is excluded.</p>
<p><b>Short-listing of Projects</b></p>	<p>NVVN will evaluate and shortlist the Projects based on the qualification criteria. If the total aggregate capacity of the Solar PV Projects short-listed is upto 150 MW, all the Projects in the first batch would be selected and LoI will be issued. If it is higher than 150 MW, the final selection shall be done on the basis of discount to be offered by Project Developers on CERC Approved Applicable Tariff.</p>	<p>NVVN will evaluate and shortlist the Projects based on the qualification criteria. If the total aggregate capacity of the Solar Thermal Projects short listed by NVVN is lower than the capacity to be selected, all the short-listed Projects would be selected and LoI will be issued. If it is higher than capacity to be selected, the final selection shall be done on the basis of discount to be offered by Project Developers on CERC Approved Applicable Tariff.</p>

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<b>Selection of Projects based on Discount in Tariff</b>	<p><b>For First batch</b> - (i) Short-listed projects would asked by NVVN to submit Request for Proposal (RfP) bid indicating the discount in Rs/kWh on CERC Approved Applicable Tariff. (ii) The RfP containing format and detailed mechanism will be issued by NVVN after short-listing of the Projects. (iii) Projects offering the maximum discount in Rs/kWh would be selected first and so on. (iv) Bid Bond on graded scale would need to be furnished along with the RfP bid in the manner detailed below. (v) In the eventuality of a tie in the bidding process, the applicant would be selected by draw of lots. At the end of the selection process, Lol will be issued by NVVN to selected project.</p> <p><b>For Second batch</b> - RfS for the Solar PV Projects in second batch will be invited during FY 2011-12. The process of inviting and selection of projects is same as first batch.</p>	<p>(i) Short-listed projects would asked by NVVN to submit Request for Proposal (RfP) bid indicating the discount in Rs/kWh on CERC Approved Applicable Tariff. (ii) The RfP containing format and detailed mechanism will be issued by NVVN after short-listing of the Projects. (iii) Projects offering the maximum discount in Rs/kWh would be selected first and so on. (iv) Bid Bond on graded scale would need to be furnished along with the RfP bid in the manner detailed below. (v) In the eventuality of a tie in the bidding process, the applicant would be selected by draw of lots. At the end of the selection process, Lol will be issued by NVVN to selected project.</p> <p>In case project developer submits application for multiple projects and such projects are shortlisted, then the developer has to offer discount separately on each such shortlisted project.</p> <p>In case the Capacity of last Project selected is higher than the capacity to be selected for meeting the cumulative capacity of all the Projects to be selected under these Guidelines, the Capacity of last Project selected shall be limited to meet the cumulative capacity.</p>																												
	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #f2f2f2;"> <th>Sl. No.</th> <th>Discount offered on CERC Approved Tariff</th> <th colspan="2">Amount of Bid Bond applicable for every paise of discount on CERC Approved Tariff (per MW)</th> </tr> <tr style="background-color: #f2f2f2;"> <th></th> <th></th> <th>INR</th> <th>US\$ (app)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Up to 10% or 10%</td> <td>Rs. 10,000/=</td> <td>\$213</td> </tr> <tr> <td>2</td> <td>More than 10% &amp; Up to 15%</td> <td>Rs. 20,000/=</td> <td>\$426</td> </tr> <tr> <td>3</td> <td>More than 15% &amp; Up to 20%</td> <td>Rs. 30,000/=</td> <td>\$639</td> </tr> <tr> <td>4</td> <td>More than 20% &amp; Up to 25%</td> <td>Rs. 40,000/=</td> <td>\$852</td> </tr> <tr> <td>5</td> <td>More than 25%</td> <td>Rs. 50,000/=</td> <td>\$1,065</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Bid bond calculation example for 5MW plant</b>  <a href="http://budurl.com/MercomBidBond">http://budurl.com/MercomBidBond</a></p>		Sl. No.	Discount offered on CERC Approved Tariff	Amount of Bid Bond applicable for every paise of discount on CERC Approved Tariff (per MW)				INR	US\$ (app)	1	Up to 10% or 10%	Rs. 10,000/=	\$213	2	More than 10% & Up to 15%	Rs. 20,000/=	\$426	3	More than 15% & Up to 20%	Rs. 30,000/=	\$639	4	More than 20% & Up to 25%	Rs. 40,000/=	\$852	5	More than 25%	Rs. 50,000/=	\$1,065
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<b>Power Purchase Agreement (PPA)</b>	A copy of Draft PPA to be executed between NVVN and the Project Developer shall be provided by NVVN along with invitation for submission of RfS. Within one month of the date of issue of Lol, the PPA between NVVN and the Project Developer for purchase of power from the project will be executed.	A copy of Draft PPA to be executed between NVVN and the Project Developer shall be provided along with Lol. Within one month of the date of issue of Lol, the PPA between NVVN and the Project Developer for purchase of power from the project will be executed.																												
<b>Bank Guarantees</b>	The Project Developer shall provide the following Bank Guarantees to NVVN: (i) Earnest Money Deposit (EMD) of Rs. 20 Lakh/MW (~\$43K/MW) in the form of Bank Guarantee along with RfS. (ii) Bid Bond as per Clause 2.7 (d) in the form of Bank Guarantee along with RfP bid (if applicable). (iii) Performance Bank Guarantee of Rs. 30 Lakh/MW (~\$64K/MW) at the time of signing of PPA. (iv) In addition to the Performance Bank Guarantee of Rs. 30 Lakh/MW to be provided at the time of signing of PPA, the Bank Guarantees towards EMD and Bid Bond (if applicable) will also be converted into Performance Bank Guarantee.	The Project Developer shall provide the following Bank Guarantees to NVVN: (i) Earnest Money Deposit EMD of Rs. 20 Lakh/MW (~\$43K/MW) in the form of Bank Guarantee along with RfS. (ii) Bid Bond as per Clause 2.7 (d) in the form of Bank Guarantee along with RfP bid (if applicable). (iii) Performance Bank Guarantee of Rs. 30 Lakh/MW (~\$64K/MW) at the time of signing of PPA. (iv) In addition to the Performance Bank Guarantee of Rs. 30 Lakh/MW to be provided at the time of signing of PPA, the Bank Guarantees towards EMD and Bid Bond (if applicable) will also be converted into Performance Bank Guarantee.																												
<b>Minimum Equity to be held by the Promoter</b>	The Company developing the project shall provide the information about the Promoters and their shareholding in the company to NVVN indicating the controlling shareholding before signing of the PPA with NVVN. No change in the shareholding in the Company developing the Project shall be permitted from the date of submitting an RfS till the execution of the PPA. However, this condition will not be applicable if a listed company is developing the Project. After execution of PPA, the controlling shareholding (controlling shareholding shall mean at least 26% of the voting rights) in the Company developing the project shall be maintained for a period of (1) one year after commencement of supply of power. Thereafter, any change can be undertaken under intimation to NVVN.	The Company developing the project shall provide the information about the Promoters and their shareholding in the company to NVVN indicating the controlling shareholding before signing of the MOU with NVVN. No change in the shareholding in the Company developing the Project shall be permitted from the date of submitting an RfS till the execution of the PPA. However, this condition will not be applicable if a listed company is developing the Project. After execution of PPA, the controlling shareholding (controlling shareholding shall mean at least 26% of the voting rights) in the Company developing the project shall be maintained for a period of (1) one year after commencement of supply of power. Thereafter, any change can be undertaken under intimation to NVVN.																												
<b>Financial Closure</b>	The Project shall achieve Financial Closure within 180 days from the date of signing Power Purchase Agreement. No extension shall be granted for achieving this milestone. At this stage, the Project developer would also provide evidence that the required land for project development is in clear possession of the Project developer and the requisite technical criterion have been fulfilled. The Project developer would also need to specify their plan for meeting the requirement for domestic content. The requirement for land <sup>1</sup> , as specified in the Migration guidelines, would remain unchanged. <b>In case of delay in achieving above condition as may be applicable, NVVN shall encash Performance Bank Guarantee and shall remove the project from list of the selected projects.</b>	The Project shall achieve Financial Closure within 180 days from the date of signing Power Purchase Agreement. No extension shall be granted for achieving this milestone. At this stage, the Project developer would also provide evidence that the required land for project development is in clear possession of the Project developer and the requisite technical criterion have been fulfilled. The Project developer would also need to specify their plan for meeting the requirement for domestic content. The requirement for land <sup>1</sup> , as specified in the Migration guidelines, would remain unchanged. <b>In case of delay in achieving above condition as may be applicable, NVVN shall encash Performance Bank Guarantee and shall remove the project from list of the selected projects.</b>																												
<b>Commissioning</b>	<p><b>Solar PV Project shall be commissioned within 12 months of the date of signing of PPA.</b> In case of failure to achieve this milestone, NVVN shall encash the Performance Guarantee in the following manner:</p> <ul style="list-style-type: none"> <li>➤ <b>Delay upto 1 month</b> - NVVN will encash 20% of the total Performance Bank Guarantee.</li> <li>➤ <b>Delay of more than 1 month and upto 2 months</b> - NVVN will encash 40% of the total Performance Bank Guarantee.</li> <li>➤ <b>Delay of more than 2 month and upto 3 months</b> - NVVN will encash the remaining Performance Bank Guarantee.</li> <li>➤ <b>Delayed beyond 3 months and upto 6 months</b> - The Project Developer shall pay to NVVN the Liquidated Damages at rate of Rs 1,00,000/MW per day of delay for the delay in such Commissioning.</li> <li>➤ <b>Delayed beyond 6 months (or 18 months from the date of signing of PPA)</b> - the PPA will be terminated and the Project shall be removed from the list of selected Projects.</li> </ul> <p><i>However, if as a consequence of delay in commissioning, the applicable tariff changes for the project, the project shall be paid the changed applicable tariff, incorporating the tariff discount, if any.</i></p>	<p><b>Solar Thermal Projects shall be commissioned within 28 months of the date of signing of PPA.</b> In case of failure to achieve this milestone, NVVN shall encash the Performance Guarantee in the following manner:</p> <ul style="list-style-type: none"> <li>➤ <b>Delay upto 1 month</b> - NVVN will encash 20% of the total Performance Bank Guarantee.</li> <li>➤ <b>Delay of more than 1 month and upto 2 months</b> - NVVN will encash 40% of the total Performance Bank Guarantee.</li> <li>➤ <b>Delay of more than 2 month and upto 3 months</b> - NVVN will encash the remaining Performance Bank Guarantee.</li> <li>➤ <b>Delayed beyond 5 months and upto 8 months</b> - The Project Developer shall pay to NVVN the Liquidated Damages at rate of Rs 1,00,000/MW per day of delay for the delay in such Commissioning.</li> <li>➤ <b>Delayed beyond 8 months (or 36 months from the date of signing of PPA)</b> - the PPA will be terminated and the Project shall be removed from the list of selected Projects.</li> </ul> <p><i>However, if as a consequence of delay in commissioning, the applicable tariff changes for the project, the project shall be paid the changed applicable tariff, incorporating the tariff discount, if any.</i></p>																												

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**Notes: 1. Land for the Project:** The Project Developer should have ownership or lease hold rights (for at least 30 years) and taken possession of 100% of the area of the land required for the Project at the time of filing the application to NVVN i.e. on or before February 26, 2010. For this purpose, the land requirement shall be considered as 2 Hectares/MW (~4.9 acre/MW). In all cases, the Project Developer shall furnish documentary evidence in the form of certificate by the concerned and competent revenue/registration authority for the acquisition/ownership/vesting of the land. This evidence shall be supported by a sworn affidavit from the developer listing the total land acquired for the power station. **(Clause From - Guidelines for Migration of Existing Under Development Grid Connected Solar Projects from Existing Arrangements to the JNNSM).**

**Other Provisions**

**Role of State Level Agencies:** It is envisaged that the State Government shall appoint any Agency as a State Level Agency, which will provide necessary support to facilitate the development of the Projects. This may include facilitation in the following areas:

- **Access to Sites**
- **Water Allocation for Solar Thermal Projects**
- **Land acquisition for the project**
- **Connectivity to the Transmission substation.**

**Role of Carbon Financing:** Project developers are encouraged to identify the potential role of carbon finance in their investment analysis including:

- (i) The expected revenues from emission reductions; and
- (ii) The cost of power with and without carbon revenues.

**Amendment to the Guidelines:** These guidelines will be reviewed after one year from the date of issue of these guidelines and any modification to these guidelines, if necessary, shall be carried out so as to achieve the objectives of the National Solar Mission.

**Annexure 1A: Technical Requirements of PV Module for use in Grid Solar Power Plants**

**(a) PV Module Qualification:** The PV modules used in the grid solar power projects must qualify to the latest edition of any of the following IEC PV module qualification test or equivalent BIS standards.

- **Crystalline Silicon Solar Cell Modules - IEC 61215**
- **Thin Film Modules - IEC 61646**
- **Concentrator PV modules - IEC 62108**

In addition, PV modules must qualify to IEC 61730 for safety qualification testing. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701.

**(b) Authorized Test Centers:** The PV modules must be tested and approved by one of the IEC authorized test centers. In addition a PV module qualification test certificate as per IEC standard, issued by ETDC, Bangalore or Solar Energy Centre will also be valid.

**(c) Warranty:**

- The mechanical structures, electrical works and overall workmanship of the grid solar power plants must be warranted for a minimum of 5 years.
- PV modules used in grid solar power plants must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.

**(d) Identification and Traceability:** Each PV module used in any solar power project must use a RF identification tag. The information (name of the manufacturer of PV module/solar cells, month and year of the manufacture, Country of origin, I-V curve, Wattage, Im, Vm and FF, Unique Serial No and Model No, date and year of obtaining IEC PV module qualification certificate, name of the test lab issuing IEC certificate, Other relevant information on traceability of solar cells and module as per ISO 9000) must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions.)

All grid solar PV power plants must install necessary equipment to continuously measure solar radiation, ambient temperature, wind speed and other weather parameters and simultaneously measure the generation of DC power as well as AC power generated from the plant. They will be required to submit this data to the Ministry on line and/or through a report on regular basis for the entire duration of PPA.

**Annexure 1B: Technical Qualification Requirements for Eligibility of a Solar Thermal Power Developer to Establish Solar Power Plant under JNNSM**

(a) Only new plant & machinery to be used.

(b) Any of the Concentrated Solar Power (CSP) technology, such as, Parabolic Trough Collectors, Solar Dish Stirling (or any other prime mover), Linear Fresnel Reflector, Central Tower with heliostats, or their any other combination could be used.

**(c) Solar Power Developer must fulfil either of following requirements:**

(i) Solar Power Developer **is himself a technology provider** who has either experience in design and engineering of **at least 1 (one) MW capacity solar thermal power plant** having been in operation **for a period of at least one year** on the specified cut off date, or obtained **at least one financial closure of a solar thermal power plant of at least 50% of the proposed capacity** based on the proposed technology.

(ii) Solar power Developer **has a tie-up with a technology provider** fulfilling technology requirements at S. No. (1) above.

(iii) Solar Power Developer **is an EPC contractor/power generating company** having experience in engineering, erection and commissioning of **at least 100MW capacity conventional thermal power plant** and a tie-up with a technology provider fulfilling technology requirements at S. No. (1) above.

(iv) Solar Power Developer **has a tie-up with an EPC contractor** having experience in engineering, erection and commissioning of **at least 100 MW capacity conventional thermal power plant** and a tie-up with a technology provider fulfilling technology requirements at S. No. (1) above.

(v) Solar Power Developer **is an EPC contractor** having experience in engineering, erection and commissioning of **at least 1 (one) MW capacity solar thermal power plant** and a tie-up with a technology provider fulfilling technology requirements at S. No. (1) above.

(vi) Solar Power Developer **has a tie up with an EPC contractor** having experience in engineering, erection and commissioning of **at least 1 (one) MW capacity solar thermal power plant** and a tie-up with a technology provider fulfilling technology requirements at S. No. (1) above.

(d) All grid connected solar thermal power plants will install equipment for regular monitoring of solar irradiance (including DNI), ambient air temperature, wind speed and other weather parameters and simultaneously for monitoring of the amount of electric power generated from the plant. They will submit this data to the Ministry on line and/or through a report on regular basis for the entire duration of PPA.

**Notes:** Tie up would mean any of (i) MOU for Technology Transfer, (ii) Technology or document sale agreement, (iii) EPC Contract, (iv) project specific assurance to support with design and construction of the plant.

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The Time Schedule for Solar PV and Solar Thermal Projects under JNNSM shall be as follows:

Time Schedule for Solar Power Projects in India Under JNNSM (Phase 1, Batch 1)					
Sl.	Event	Solar PV	Date	Solar Thermal	Date
1	Notice for Request for Selection	Zero date	18 August 2010	Zero date	18 August 2010
2	Submission of Applications with documents for Registration	Zero date+30 days	17 September 2010	Zero date+30 days	17 September 2010
	<b>Extension for submission of Application</b>	<b>(Date Extended - 1 Week)</b>	<b>24 September 2010</b>	<b>(Date Extended - 1 Week)</b>	<b>24 September 2010</b>
3	Short-listing/Selection of Projects based on RfS received and decision on tariff discounting	Zero date+75 days	01 November 2010	Zero date+75 days	01 November 2010
	<b>Notice for Request for Proposal (RfP) bid indicating discount</b>		<b>10 November 2010</b>		<b>10 November 2010</b>
4	Tariff discounting process and submission of proposals by short-listed developers	Zero date+90 days	16 November 2010	Zero date+90 days	16 November 2010
5	Evaluation of Tariff discounting proposals	Within 30 days from submission of tariff discounting proposals (zero date+120 days)	13 December 2010	Within 30 days from submission of tariff discounting proposals (zero date+120 days)	13 December 2010
6	Issue of letter of intent	Within 15 days from evaluation of tariff discounting proposals (zero date +135 days)	13 December 2010	Within 15 days from evaluation of tariff discounting proposals (zero date +135 days)	13 December 2010
7	PPA Signing	Within 30 days from the date of issue of letter of intent (LOI date +30 days)	10 January 2011	Within 30 days from the date of issue of letter of intent (LOI date +30 days)	10 January 2011
8	Financial Closure of the Project	180 days from the date of signing of PPA	09 July 2011	180 days from the date of signing of PPA	09 July 2011
9	Commissioning of the Project	12 months from the date of signing of PPA	10 January 2012	28 months from the date of signing of PPA	10 May 2013

**Recent Updates:-**

**MoEF: Environment Clearance for setting up of Solar Thermal Power Plants under JNNSM - applicability of EIA Notification, 2006 -reg.** (<http://budurl.com/MercomECcsp>) (30 June 2011)

**MNRE: Implementation of a Payment Security Scheme (PSS) for Grid connected Solar Power projects under Phase I of Jawaharlal Nehru National Solar Mission (JNNSM) during the year 2011-12.** (<http://budurl.com/MercomPSSsp>) (30 June 2011)

**MNRE: Payment Security Mechanism for Grid Connected Solar Power Projects under Phase 1 of JNNSM (02 June 2011)**

**Decision:** The Government has approved Payment Security Scheme (PSM) (<http://budurl.com/Mercompyscm>) to enable financial closure of projects under Phase 1 of the Jawaharlal Nehru National Solar Mission (JNNSM) by extending Gross Budgetary Support (GBS) amounting to **Rs.486 crore** to MNRE in the event of defaults in payment by the State Utilities / Discom to NTPC Vidyut Vyapar Nigam (NVVN), the Central Agency which will purchase Solar Power from the developers and sell it to the utilities bundled with unallocated Thermal Power available from NTPC utilities.

**Implementation Strategy and Targets:** The core component of the Payment Security Scheme is to create Solar Payment Security Account (SPSA) financed from GBS to MNRE to have availability of adequate funds to address all possible payment related risks in case of defaults by distribution Utilities for the bundled power. The PPAs have a robust mechanism for recovering the payments for the supply of bundled solar power through Letter of Credit System. The SPSA, however, is not seen in the nature of margin money and is, therefore, not required to cover for the entire quantum of sale from solar energy.

The Payment Security Scheme (PSS) will be implemented by the Ministry of New and Renewable Energy (MNRE) with the provision of NVVN opening the SPSA for this purpose and draw funds as per mechanism/ provisions of the Scheme. The funds for each year shall be allocated by MNRE into SPSA.

A Fund Management Committee (FMC), constituted under the Chairmanship of Secretary, MNRE and representatives of M/o Expenditure, Planning Commission and M/o Power, will oversee the overall implementation of this scheme and shall be empowered to issue any directions to remove any difficulties with regards to its implementation. It will, however, be ensured by NVVN that all efforts are made by various stakeholders to realize the amounts.

**Major Impact:** The scheme will facilitate setting up 1000 MW grid connected solar power projects to achieve targets of the National Solar Mission.

**No Environmental Clearance Needed For Solar PV Projects In India: MoEF (13 May 2011)**

The Ministry of Environment and Forests (MoEF) has clarified that the solar PV projects are not required to obtain environmental clearance (<http://budurl.com/MercomECpy>). The ministry has issued this notification after it received a query regarding applicability of EIA Notification 2006 in respect to the solar PV projects. It is clarified that the Solar PV Project are not covered under the ambit of EIA Notification, 2006 and no environment clearance is required for such projects under the provisions thereof.

View full details of the document "**JNNSM; Guidelines for Selection of New Grid Connected Solar Power Projects**" - <http://budurl.com/MercomGCSP>