

INDIAN INSTITUTE OF TECHNOLOGY
HAUZ KHAS, NEW DELHI-110016.
CORRIGENDUM

विभाग/Dept.: - निर्माण/WORKS
संदर्भ संख्या/Ref. No. 20.13.IWOR.2870
दिनांक/Date.....12/9/13

Date :- 12/09/2013

Name of work :- S/I/T/C of 01MWp Solar PV Generation Station complete with PV modules, inverter, charge controller & other accessories at roof tops in IIT Delhi.

S.H. :- Procurement of 01MWp Solar PV Generation Station complete with PV modules, inverter, charge controller & other accessories .

Ref.NIQ No. IITD/DW/24(E)/EE(E)/2012/96

Dated :- 12.08.2013

Date of submission of Technical cum Commercial and Price/Financial bids & Opening of technical cum Commercial bids is rescheduled as under due to unavoidable reasons.

Estimated Cost (in Rs.)	Earnest Money (in Rs.)	Time for Completion	Last date of receipt application for issue of tender document	Last date of issue of tender document	Date of Pre-bid meeting	Date of submission of Technical cum Commercial and Price/Financial bids & Opening of technical cum Commercial bids
10 crores	20 Lakhs	6 months	9/08/2013	13/08/2013	03/09/2013 Venue:- AD-215 Office of Dean (Infrastructure)	submission of Technical cum Commercial and Price/Financial bids 25/09/2013 at 3.00PM Opening of technical cum Commercial bids 25/09/2013 at 3.30PM

Other terms and conditions will remain same.


G.K. Taneja

Executive Engineer (E)

Copy to :

1. I.E. 2. AEE(P) 3. A.E.(A.C) 4. D.R (A/Cs) 5. S.W. 6. Office Copy

7. Notice Board.

CC:

C.S.S., IIT DELHI:- Display of Corrigendum on website at IIT Delhi for wide publicity.

INDIAN INSTITUTE OF TECHNOLOGY : DELHI
HAUZ KHAS, NEW DELHI-110016

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संदर्भ संख्या/Ref. No. 20.13.IWOR.2870
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Sub :- Minutes of the Pre bid meeting

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S.H. :- Procurement of 01MWp Solar PV Generation Station complete with PV modules, inverter, charge controller & other accessories .

Ref.NIQ No. IITD/DW/24(E)/EE(E)/2012/96

Dated :- 12.08.2013

Pre bid meeting was held on 03.09.2013 at 03:00 AM in Senate hall IIT Delhi.

Following points have been raised by firms and the clarification to the points is as under :-

1. Point Raised by **M/s Refex Energy Pvt. Ltd.**

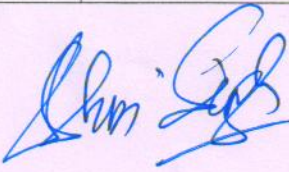
Page No.	Paragraph	Point Raised	Reply
		1. Change of EMD medium from Demand Draft to Bank Guarantee.	Is not acceptable.
		2. Make provision for Initial advance to start the work and procurement.	Is not acceptable.
		3. All payment receivable to bidder will be in the form of irrevocable Letter of credit.	Is not acceptable.
		4. Reduce the deferred amount percentage, after installation to 5% only.	Is not acceptable.
		5. In pt(vii) of page 17: Efficiency of solar PV system shall be guaranteed to 90% for up to 10years in place of 12 years.	Agreed.
		6. For SPV cleaning where will be the water availability source.	At roof top in a tank of suitable capacity. However, quality of water shall be as available at site.
		7. Diesel Generator Detail	
		a) What is the Diesel generator Capacity	IIT Delhi has more than 5000 KVA DG. Capacity.

		<p>provided by IIT-Delhi?</p> <p>b) Complete set of details of the available Diesel generator.</p> <p>c) Calculation base on DG set fuel abatement.</p> <p>8. Pg-10/Folder no.2=> Point a) DG set Capacity : 100kva against Pg-7 Point a) 1000kva.</p> <p>9. Load details for the buildings at individual level with respect to Critical & Normal load.</p> <p>10. Inverter protection cabn be beyond IP-4X as mentioned (eg. Can IP-65 be used?)</p> <p>11. Power Conditioning Unit will be -phase or 3-phase.</p> <p>12. Cable used from PCU to LT AC distribution box requires designed drawing as cable mentioned is 2C X 16 sq. mm as the inverter specs shown in the tender are flashing as 3-phase inverter and thePCU is showing as a 1-phase system unit.</p> <p>13. Building Layout where to be installed.</p> <p>14. AC Distribution box to be provided by the owner or needs to procured by the EPC?</p> <p>15. Details of existing AC Distribution box.</p> <p>16. The load on particular building could be fed to the same building or to be carried forward? If yes kindly provide the load details and schematic of AJB.</p>	<p>The capacity of DG Set range from 250 KVA to 750 KVA.</p> <p>Please follow BEE guidelines.</p> <p>It is 1000 KVA.</p> <p>Already supplied to each individual intending tenderer.</p> <p>Agreed.</p> <p>3 Phase.</p> <p>Manufacturer's recommendations will be acceptable.</p> <p>Already shown & supplied.</p> <p>Is already in position.</p> <p>Please make site visit.</p> <p>In case of over generation, excess power will be fed to nearest DB for normal supply. & that in lower generation shall be shared by power DB.</p>
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Yao

Shim Singh


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		<ul style="list-style-type: none"> • Type of foundation for the structure. • Seismic factor details for the campus location. • Extension of the plant to what extent ? Capacity of the plant ? • Whether the existing Communication network has to be fed with the monitoring system installed for 1MWp. • Can Rs485 cable be used for communication along with Ethernet cable? 	<p>Design to be submitted by vendor for approval of IIT Delhi.</p> <p>Refer relevant building code.</p> <p>Modules should have provision for future expansion.</p> <p>Few specified location are to be fed.</p> <p>Can be used.</p>
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2. Point Raised by M/s Tata Power Solar System Ltd.

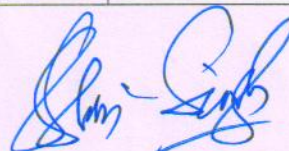
Page No.	Paragraph	Point Raised	Reply
		<ol style="list-style-type: none"> 1. How to show DC name plate capacity of each power plant in field, there are factors like solar insolation, ambient temp & air mass, series/ parallel mismatch losses in the system. 2. Why is tax registration in Delhi required? Can we bill with CST of 2% against concessional form? Will IIT provide road permit for inter- state sales. 	<p>Vendor is to design the system for 4 kwhr / KWp / day for 300 days in a year.</p> <p>CST is not applicable for IIT Delhi.</p>

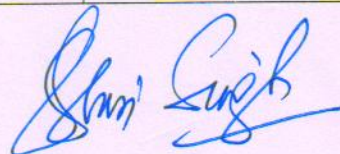
		<p>3. Why is registration in Delhi required? We can invoice & bill from our HO at Bangalore- is it acceptable.</p> <p>4. Is IIT exempted from sales tax & service tax?</p> <p>5. Can the EMD be submitted as BG from a nationalized bank?</p> <p>6. Will the last 10% payment on handover be on pro rate completion basis.</p> <p>7. Technical specifications page 18, clause vii-90% Output in 12 yrs and 80% output at the end of 25 years- Is for module degradation and not for complete system as mentioned.</p> <p>8. Mounting structure to withstand 200kmph. This is not required city. Can we reduce this to 150kmph and submit a staddpro analysis.</p> <p>9. Can we use string inverters.</p> <p>10. Annual generation guarantee : Since solar insolation is variable and no accurate model is required to predict data, we shall guarantee the performance ratio, i.e. energy generation based actual solar insolation & grid up time of 100%.</p>	<p>Yes acceptable.</p> <p>Exempted from service tax only. BG is not acceptable.</p> <p>Not acceptable.</p> <p>90% out put in 10 years and 80% out put at end of 25 years is acceptable.</p> <p>Refer IS code for Delhi.</p> <p>Yes.</p> <p>4 kwhr/KWp/day for 300 days in a year.</p>
Page 22 :		<p>11. Schedule of Quantity: We need a separate order for supply and separate for installation & commissioning as both have different tax implications. If quote supply+ installation &</p>	<p>No change is acceptable.</p>

Page 22 :

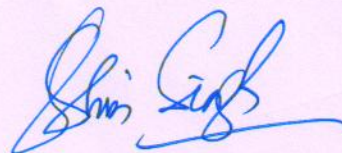
Page 35 :


Page 1 :		<p>commissioning together, CST & Service Tax will have to be loaded on the entire price. Word "charge controller" shall be removed from sub-heading statement of S.H.</p>	--- Stands deleted---
Page 5 Solar PV Panel, point-v :		word "charge controller" shall be removed.	---Stands deleted---
Page 17, Solar Photovoltaic Modules :		<ul style="list-style-type: none"> • We recommend following manufacturers shall be added : Yingli, Canadian, Trina or Astroenergy • Name : "Tata BP" shall be changed to Tata Power Solar • We recommend to remove Suntech Solar since it is bankrupted 	<p>Equivalence shall be decided by the technical evaluation committee of IIT Delhi.</p> <p>As per rules.</p> <p>As per rules.</p>
Page 18, Solar Mounting Structures :		<ul style="list-style-type: none"> • Wind load capacity of structures shall be changed to 170 kmph as per IS875 for Delhi region. • As per standard practice, we recommend, module mounting structures consists of main structure components (structure legs) with hot Dip galvanized (70 microns) & Module mounting purlins with pre-galvanized/Zinc-Aluminum coated up to 550 gram per square meter both sides. 	<p>Follow the IS code.</p> <p>Clarified above at point at 18.</p>

<p>Page 19 to 22, Power Conditioning Unit :</p>		<ul style="list-style-type: none"> • Module mounting structure minimum clearance shall be 300mm which is general practice for rooftop project. • It is recommended to use String inverters as they offer flexibility to customize the capacity as per roof array size. • A maximum DC to AC ratio of 15% for String Inverters shall be allowed, i.e. for 100KWp solar PV array, 85kva string inverter can be offered. This design practice improves plant performance & helps to operate inverters at their optimum efficiency levels. Please refer attached justification for the same as well. • Centralized SCADA shall be offered for entire power plant monitoring. • Following Inverter makes shall be added as approved Makes : Delta, Refusol, Danfoss, Vacon. These manufacturers have good products, large customer base and technical strengths. 	<p>No change in specifications.</p> <p>Manufacture's specifications are acceptable.</p> <p>90kVA for 100KWp is acceptable.</p> <p>Manufacturer's specs. are acceptable.</p> <p>Equivalence will be approved by the technical evaluation committee of the IIT Delhi.</p>
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<p>Page 22, Cables and Accessories:</p>		<ul style="list-style-type: none"> • To house LT Panels (ACDB) etc IIT has to provide the control room space • It is recommended to use Single set of Radiation & temperature monitoring sensors at one of the roofs. • Event Log : Minimum Event Log time shall be amended to 300sec. • Point : C describes about cable size to be offered. As distance from PV array to control room may vary from one building to another building & therefore cable spec mentioned here may not be appropriate. • We recommend: Cables shall be designed with minimum AC & DC losses in the system. AC Losses in the system shall not be more than 3%. 	<p>Shall be provided by IIT Delhi.</p> <p>Radiation & temperature monitoring sensors - one at each roof.</p> <p>Manufacturer's specs. are acceptable.</p> <p>System is to be designed by the intending vendor.</p>
<p>Page 23, Annual Generation Guarantee :</p>		<ul style="list-style-type: none"> • Energy (kwh) figures should be corrected to : $1000 \times 4 \times 300 = 1.2$ million kwh for 01 MWp power plant. 	<p>System is to be designed by the intending vendor.</p> <p>4 units / KWp / per day for 300 days in a year.</p>

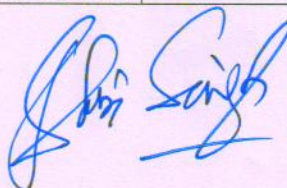



Page 25, Structural Steel Work :		<ul style="list-style-type: none"> • Page 18 mentions structure with 70 micron galvanization thickness whereas this clause asks for 80 micron galvanization thickness, please clarify. <p>General Enquires from Tata Power Solar :</p> <ul style="list-style-type: none"> • Scope of work during annual maintenance period of 05 year shall be described in detail. It is recommended monthly cleaning of solar PV modules, & 04 technical health checkup visit per year. • Solar power generated from individual building (irrespective of Solar Array capacity) will be fed to the LT Panels located in the same building. • Control Room for Monitoring the power plant where Computer & other necessary monitoring hardware shall be kept will be provided by the IIT. • Internet/LAN connectivity for monitoring the Solar Power plant shall be provided by IIT. One LAN/Internet port at each building shall be provided. 	<p>Clarified above.</p> <p>Maintenance part is to be decided by the successful tenderer to ensure generation guarantee.</p> <p>Yes.</p> <p>Yes.</p> <p>Yes.</p>
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3. Point Raised by M/s Solarsis.

Page No.	Paragraph	Point Raised	Reply
		<ol style="list-style-type: none"> 1. Is the Diesel Generator of capacity 1000KVA at a single location or is it a cumulative capacity of multiple Diesel generators? 2. Is there a preference between a simple solar system or a solar DG hybrid system? 3. In page 10, folder II, pt a, the capacity of the Diesel Generator mentioned is 100KVA . Please clarify if it is 100KVA or 1000KVA 4. Will layout drawings be provided for the buildings identified by IIT Delhi? 5. What civil structure to be used? Counter weight type or anchor type? 6. What is the load bearing capacities of the buildings? Will the structural drawings for the same be provided? 7. What is the evaluation criteria for the tender? 8. Delhi falls under the category of wind zone 4 which corresponds to a max wind speed of 169 kmph. Given this scenario, is it required for structures for a wind speed of 200kmph? 9. In page no, 17pt no 7, what does the efficiency of PV system refer to; module efficiency of the plant? 10. In page no 26, under the tubular steel truss, it was mentioned that the truss must be anchored to the 	<p>Cumulative capacity of multiple generators</p> <p>As per specifications of NIQ</p> <p>It is 1000KVA.</p> <p>Please visit physically.</p> <p>To be designed by the vendor</p> <p>Clarified above</p> <p>Lowest tenderer who fulfills the specifications, terms & conditions of the tender.</p> <p>As per IS Code</p> <p>It is self explanatory</p> <p>Load will be distributed to the columns.</p>

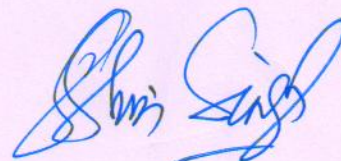
		<p>roof coloumn : Does it refer to the existing building coloumn?</p> <p>11. Should all the structural members be tubular sections?</p> <p>12. Can all the sections be hot rolled, cold formed?</p> <p>13. Two different set of galvanization of 80 microns and 70 microns has been mentioned for the structures. Please clarify which one has to be considered?</p> <p>14. Is the efficiency of the inverter Euro efficiency or max efficiency?</p> <p>15. What are the capacities of a string inverter?</p> <p>16. In case of compliance to all technical requirements of inverters, can central inverters of 1000KW be used as against string inverters?</p> <p>17. Can Aluminum cables be used on AC side?</p> <p>18. Please specify the total loss in the evacuation?</p> <p>19. Kindly confirm the expected generated output? - 12000kwh versus 1200kwh</p> <p>20. Is minimum degradation not applicable to total output generated as all the first 5 years indicate a consistent output?</p> <p>21. Is BG acceptable for performance guarantee?</p> <p>22. Can the EMD be paid as a BG?</p>	<p>Design shall be submitted by the successful tenderer for approval of IIT Delhi.</p> <p>-----Do-----</p> <p>Clarified above.</p> <p>As per tender document.</p> <p>To be designed by the tenderer.</p> <p>To be designed by tenderer.</p> <p>-----Do-----</p> <p>-----Do-----</p> <p>4 units/KWp/per day for 300 day per annum</p> <p>-----Do-----</p> <p>Yes</p> <p>No</p>
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4. Point Raised by M/s Bharat Heavy Electricals Limited.

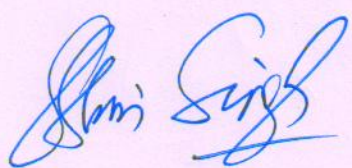
Page No.	Paragraph	Point Raised	Reply
1. Clause 11 pg 12 EARNES MONEY DEPOSITE		1. Bhel Being a Public Sector Undertaking of Government of India, EMD may please be waived off.	Not acceptable
2. Clause VI, Page 5 O & M		2. O & M for 5 years may be reconsidered. BHEL can provide proper training to your personnel for the maintenance of SPV plant.	No change
3. Clause 19 Page 18 Payment Terms		3. Payment schedule may be modified as :- 10% interest free advance. 80% against supply of materials at site. 10% after successful Installation and commissioning of the SPV plant.	Clarified above

5. Point Raised by M/s Jakson Engineers Limited.

Page No.	Paragraph	Point Raised	Reply
Building Management System (BMS) Section: Brief Description of Work Page 6		1. What BMS systems are currently in place at the IIT-D buildings? 2. Please specify the building management system communication protocol type. 3. In case the PCU doesn't have any Data logging facility and the same can be achieved by installing an external data logger, will this be acceptable?	Not applicable Not applicable Acceptable

<p>Diesel Abatement Feature Section : Technical Specifications Page 17</p>		<ol style="list-style-type: none"> 4. Time stamping is required with 10 minutes interval, however what is the meaning of event logging adjustment from 01 sec to 900 sec? 5. Whether any preference would be given to a bidder that is proposing a better design for diesel abatement. 6. What levels of diesel abatement is targeted for this project? 7. Diesel set rating is 1000KVA or 100KVA? 8. DG power is distributed through a central location or are separate DG set used for individual buildings? 9. DG set Make and its controller details is required in order to understand its frequency and voltage variation with respect to load variation. 10. DG set fuel consumption graph or document is required to provide Fuel saving data. 11. DG set degradation data w.r.t. its age and fuel consumption from no load to full load. 12. DG set optimal fuel consumption data or graph. 13. DG set voltage and frequency variation data or graph is required from no load to full load with 25 year's time period span. 14. DG set panel must have reverse power protection to avoid any trouble free 	<p>Manufacturer's specs are acceptable.</p> <p>As per terms & conditions of the tender.</p> <p>Highest</p> <p>It is 1000KVA.</p> <p>It is a cluster of DG Set at a location</p> <p>Make personal visit.</p> <p>Follow BEE recommendations.</p> <p>-----Do-----</p> <p>-----Do-----</p> <p>-----Do-----</p> <p>Yes, it has</p>
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<p>Electrical Details Section: Brief Description of work Page 6</p>		<p>operation.</p> <p>15. Provision of Single Line Diagram's (SLD'S) of the buildings will be needed for detailed planning of the plant.</p> <p>16. Whether internal laying of cables for each building is allowed or external laying of cables is to be done?</p> <p>17. Whether the power produced from the SPV panels of each block to be fed into that respective block or fed to the main substation?</p>	<p>Design is to be submitted by the vender.</p> <p>As applicable.</p> <p>Respective block.</p>
<p>Load Details of the Buildings</p>		<p>18. Data relating to seasonal variation of the building loads will be required.</p> <p>19. What is the power mix during all the seasons? How much percentage of DG power and how much power from Grid is used?</p>	<p>Emergency power supply do not vary</p> <p>Mostly Grid supply.</p>
<p>Module Mounting Structure Section: Module Mounting Structure Page 18</p>		<p>20. Are feeders available in each building's LT Panel for connecting solar power produced?</p> <p>21. To determine the load bearing capacity of the roof, the complete structure drawings for all of the blocks shall be required, along with other necessary details.</p>	<p>Yes</p> <p>Clarified above</p>

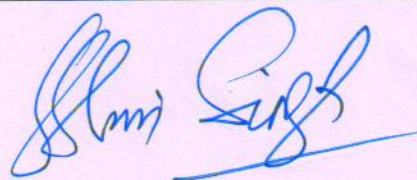
		22. What is the roof layer thickness of brick and concrete?	Make personal visit
		23. Whether puncturing will be allowed on the roof?	As applicable.
		24. Who will carry out the verification of the structure for final approval? Will it be our responsibility or the in the purview of the committee members?	IIT Delhi.
		25. Soil resistivity required if available at IIT-D	-----
		26. Please define what "electrolytically" compatible material means.	Refer IS code.
		27. MMS structure Galvanization is require with 70 micron or 80 micron thickness?	Clarified above.
		28. PV module Electrolytically compatible frame is require or Aluminum frame is also acceptable	Manufacturer's specifications dully approved by Technical committee shall be acceptable.
		29. Certification of compliance with MNRE guidelines applicable for all components or any specification device?	Yes

<p>Miscellaneous Questions Section: Technical Specification Page 17</p>		<p>30. What energy loss calculation method will be adopted by IIT-D through any specific formula?</p> <p>31. Whether monitoring is required as per MNRE guide lines, please confirm.</p> <p>32. Other Information required from site to start design activities:</p> <ul style="list-style-type: none"> a. LT AC Panel location w.r.t. each building b. Distance among all building c. Shadow free area assessment for each building d. Earthing pit location to assess the earthing strip length. e. Pressure pump requirement for each building and its location w.r.t. water pipe availability. f. Location of Each building LT panel from roof top and its cable route. <p>33. Whether any type of storage be provided on site and what will its be location?</p> <p>34. Adedicated room for operation and maintenance shall be required for the following</p>	<p>As applicable</p> <p>Yes</p> <p>Clarified above</p> <p>-----Do-----</p> <p>-----Do-----</p> <p>Shall be decided by the supplier</p> <p>Clarified above.</p> <p>-----Do-----</p> <p>Yes</p> <p>Yes size & location will be decided by IITD.</p>
<p>Operation & Maintenance Section : Part-</p>			




<p>B(Price Bid) Page 11</p> <p>Point of Connection & Metering Section: Brief Description of Work Page 6</p> <p>Solar Photovoltaic Modules (SPV) Section :Solar Photovoltaic Modules Page 17</p>		<p>two purposes, will this be provided to the bidder?</p> <ul style="list-style-type: none">a. 60 m2 for Operation and Maintenanceb. 200 m2 for transit storage <p>35. Where will the point of connection between the SPV rooftop plant and the LT panel be? Will they be connected to both the LT panels of the building separately or are the LT panels already inter-connected?</p> <p>36. At what point will the metering be done?</p> <p>37. Where is the isolator to be located?</p> <p>38. Solar panel or solar system degradation pattern confirmation is require from system provider?</p> <p>39. Module degradation 10% at the end of the 10 years not the end of the 12 years. Need confirmation.</p> <p>40. Degradation of power to be calculated from minimum power output or maximum power output of the module?</p> <p>41. RFID tag is require for PV module or not?</p> <p>42. Efficiency of solar PV System shall be guaranteed to 90% for up to 12 years is difficult to provide due to SPV module degradation of 10% within first 10 years. Is this clause related to PV system or PV module?</p>	<p>Clarified above</p> <p>Vendor will suggest for approval. -----Do-----</p> <p>Yes</p> <p>Clarified above.</p> <p>Clarified above.</p> <p>-----</p> <p>Clarified above.</p>
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<p>Import/Export Feature Section : Page 6 Brief Description of Work</p> <p>Surge Protection Section: Lighting Arrestor Page 23</p> <p>Page 5 Section : Solar PV Panel / On Grid System</p> <p>Page 6 Section : Solar PV Panel/ On Grid System (Continued)</p>		<p>43. Is there a power connection among all the building is present in order to maintain the power import and export facility among all the buildings solar power?</p> <p>44. Metal oxide varistors type is require in order to select the right product.</p> <ul style="list-style-type: none"> • Point 3 : What are the applicable codes? • Point 6 : Trenching Allowed or not allowed? • Where are the loads being fed by existing Power sources/ • Point 8 : In what manner can we show the feasibility for further expansion? • Point 21 : Please inform number of team and people that are to be trained. • Point (a): What is the DG rating and make along with year of manufacture 	<p>Clarified above.</p> <p>-----</p> <p>As applicable.</p> <p>As applicable.</p> <p>Clarified above.</p> <p>Clarified above</p> <p>Shall be clarified to successful tenderer.</p> <p>Clarified above.</p>
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Page 7		<ul style="list-style-type: none"> Point (b): Is there any mechanism for making comparing losses report for every bidder? Point (e): Is self-certification valid? Point (f): Comply with MNRE guidelines for which components? Point (h): Please suggest structural strength of the building. Please provide the exact details of what type of test you shall be performing. 	<p>Follow MNRE Guide lines.</p> <p>No</p> <p>Yes</p> <p>Clarified above</p> <p>Follow relevant code</p>
Page 15 Section : Completion Test		<ul style="list-style-type: none"> Approved Makers of Solar Panel: How is equivalence with the mentioned Solar PV module suppliers to be proved 	<p>Shall be decided by IIT Delhi</p>
Page 17 Section : Approved Make of SPV Modules		<ul style="list-style-type: none"> Alternate material like Aluminum is permitted? 	<p>No change in specifications is allowed</p>
Page 18 Section : Module Mounting		<ul style="list-style-type: none"> Point 9: If data logger is not built in, then can we install an external one? 	<p>Clarified above.</p>