

**Government of Rajasthan**  
**RAJASTHAN AGRICULTURAL COMPETITIVENESS PROJECT**  
**II FLOOR, ACADEMIC BLOCK, SIAM CAMPUS, DURGAPURA, JAIPUR-302018**  
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IFB No.: IN-PMU-RACP-153471-GO-RFB-2019-20/ 11926

Date: 20/2/2020

**Corrigendum**

In reference to IFB No.: IN-PMU-RACP-153471-GO-RFB-2019-20/10823 dated 23.01.2020 and pre-bid meeting held on 07.02.2020 for Supply, Installation, Testing and Commissioning of Distributed Grid Connected Solar PV System, following para may be read as:

S. No.	References Clauses	Amendment in the bidding documents
1	<b>Section VII, Schedule of Requirements,</b> 4.MAINTENANCE & GENERATION GUARANTEE 4.2.1. CUF - 18.6%	CUF – 17.00%
2	<b>2. Detailed Scope of Work</b>	<b>Addition in Technical Specification under Clause 6.3 :</b> Supplier will have to provide fencing of the solar system to ensure the security and safety with following specification :- (Angle iron (with red oxide and Black paint coating) 35x35x5mm Distance between two polls 2.5 mtr. with corner angle iron support. Fencing height – 5ft. Gate size – 3x5 ft. (with lock provision) Foundation of cement & concrete (1x1x1.5ft) Set back (from module last point) (1 mtr. North, 2 mtr. South, 2 mtr. East – West)) Thickness (2mm) Mesh wire or 16 gauge thickness barbed wire.
3	Section VII, Schedule of Requirements, 3. Technical specification 3.2.1 Table of Applicable Standard with description	Addition: <b>1. Solar PV Modules</b> (e) IEC 61701: Salt Mist Corrosion Testing of Photovoltaic (PV) Modules (f) IEC 62716: Photovoltaic (PV) Modules – Ammonia (NH3) Corrosion Testing (As per the site condition like dairies, toilets) <b>5. Surge Arrestors</b> (b) BFC 17-102:2011: Lightning Protection Standard





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		10. PV Mounting structure (a) IS 2062/IS 4759 : Material for the structure mounting
4	3.3 PV Modules 3.3.21. RF Identification tag for each solar module shall be provided inside the module and must be able to withstand environmental conditions and last the lifetime of the solar module.	Replaced by: Modules deployed must use a RF identification tag. The following information must be mentioned in the RFID used on each modules (This should be inside the laminate only and must be able to withstand harsh environmental conditions). (a) Name of the manufacturer of the PV module (b) Name of the manufacturer of Solar Cells. (c) Month & year of the manufacture (separate for solar cells and modules) (d) Country of origin (separately for solar cells and module) (e) I-V curve for the module Wattage, Im, Vm and FF for the module (f) Unique Serial No and Model No of the module (g) Date and year of obtaining IEC PV module qualification certificate. (h) Name of the test lab issuing IEC certificate. (i) Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001
5	3.5 Module Mounting Structure	Addition: 3.5.19 All the cables shall be aesthetically tied to module mounting structure.
6	3.11. Earthing: 3.11.4. Earthing bus bar shall be terminated at both ends of the switchgear to suit the connections to outside earthing conductor. All components and the module are required to be earthed individually and are to be looped and connected to the earthing grid. Separate earth pits shall be prepared for equipment body earthing. Lightning arrestor earth pits and equipment earth pit are to be kept separate.	Replaced by: Earthing bus bar shall be terminated at both ends of the switchgear to suit the connections to outside earthing conductor. All components and the module are required to be earthed individually and are to be looped and connected to the earthing grid.

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7	3.11.9. The earthing shall be maintenance free earthing and shall be done through 3 meter long stainless steel earthing rod.	<p>Replaced by:</p> <p>The earthing shall be maintenance free Gel with Pipe in pipe/pipe in strip technology filled with anti-corrosive conductive compound (CPRI Tested) below the ground in 150-200 mm dia.</p> <p>a) Gel earthing &amp; Chemical compound should be type tested from Govt. approved / Govt. recognized / NABL Accredited laboratory / ILAC i.e. International Laboratory Accredited Laboratory (in case of foreign laboratory).</p> <p>b) 80 mm dia GI pipe should be B class.</p> <p>c) GI / Cu strip should be top to bottom inserted &amp; welded on bottom part of electrode.</p> <p>d) GI strip should be hot dip galvanized as per IS-3043 standard 80-100 micron zinc coating.</p> <p>e) Cu strip should be 99% pure copper &amp; inserted top to bottom and welded on bottom part with brass welding.</p> <p>f) CCM (crystalline conductive mixture) should be anticorrosive &amp; to be filled top to bottom in electrode.</p> <p>g) Chemical compound PH value should not be less than 8.</p> <p>h) With 3/6 mtr electrode 2 bags (25kg each)/4 bags chemical compound has to be filled in bore.</p> <p>i) For semi rocky &amp; rocky area 8 bags (25 kg each) chemical compound has to be filled in open bore.</p> <p>j) Chemical compound has to mixed with water to make it in paste form and pour surrounding area of electrode.</p> <p>k) For 80mm dia electrode bore size should be 9 inch x 3.5/6.5 mtr depth.</p> <p>l) Earth resistance for single earth should not be higher than 0.5 ohms</p> <p>m) All body connections should be connected with gi earthing</p> <p>n) Supply &amp; Erection of Maintenance free Gel earthing with Pipe in pipe/pipe in strip technology filled with anti-corrosive conductive compound (CPRI Tested) below the ground in 150-200 mm dia. Earth pit &amp; surrounding filled with required mineral filling compound (MFC should have hygroscopic property to retain the moisture for long</p>

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		time to create low resistance zone ) and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm X 300mm complete testing of earth resistance as required G.I Pipe (IS : 1239 marks) GI pipe 3000/6000 mm long, 80 mm Dia, GI/Cu Strip. Earthing as per IS:3043-1987 and its latest amendments.				
8	3.11. Earthing	Addition: 3.11.10. There will be three separate earthings viz. one for Lightning Arrester, another for all mounting structure and third earthing for inverter and all electrical circuit.				
9	<p><b>4.Maintenance and Generation Guarantee</b></p> <p>4.1.3. The Contractor shall attend to any complaint from the Agriculture Consumer and rectify any faults or breakdown within a timeframe of 48 (forty eight) hours from such complaint. The Contractor shall be liable for any loss of generation from the PV system arising from persisting fault beyond the 48-hour period and shall compensate the Agriculture Consumer at the rate of Rs. 7.00 per kWh of generation loss beyond the 48-hour period.</p>	<p>Replaced by:</p> <p>The Contractor shall attend to any complaint from the Agriculture Consumer and rectify any faults or breakdown within a timeframe of 72 (seventy two) hours from such complaint.</p>				
10		<p>Addition:</p> <p>4.1.9. If the down time period for any beneficiary complaint exceeds 72 hours and the contractor fails to make the plant operational, a penalty for the time period exceeding 72 hours, as per the below mentioned schedule shall be deposited by the contractor to the concerned AO of circle / as decided by DISCOM.</p> <table border="1" data-bbox="992 1321 1794 1431"> <thead> <tr> <th data-bbox="992 1321 1384 1390">Water pump capacity (in HP)</th> <th data-bbox="1384 1321 1794 1390">Penalty applicable (in INR per day)</th> </tr> </thead> <tbody> <tr> <td data-bbox="992 1390 1384 1431">5.00 &amp; 5.75</td> <td data-bbox="1384 1390 1794 1431">235</td> </tr> </tbody> </table>	Water pump capacity (in HP)	Penalty applicable (in INR per day)	5.00 & 5.75	235
Water pump capacity (in HP)	Penalty applicable (in INR per day)					
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S. No.	References Clauses	Amendment in the bidding documents	
		7.50 & 10.00	355
11	<p><b>4.2 Generation Guarantee</b></p> <p>4.2.5. In case of energy generation corresponding to less than the Guaranteed CUF, It is clarified that the penalty for loss in generation shall not be duplicated with the penalty for delay in rectification of fault beyond 48 hours of complaint.</p>	<p>Replaced by:</p> <p>In case of energy generation corresponding to less than the Guaranteed CUF, It is clarified that the penalty for loss in generation shall not be duplicated with the penalty for delay in rectification of fault beyond 72 hours of complaint.</p>	

The last date of submission of bid has been extended from 25.02.2020 to 06.03.2020 up to 02.00 P.M. The bid will be opened on the same day at 02.30 PM. The bid security shall be valid for the period up to 165 days from the revised date of bid submission. Other terms and conditions of bidding document will remain unchanged.

  
**(Alok Ranjan)**  
 Project Director