

Bid for Design, Engineering, Supply & Procurement, Construction, Operation and Maintenance of 2 x 75MW (AC) Solar Photovoltaic Grid-Connected Power Plant at Gujarat Solar Park, Village Charanka, Taluka Santalpur, District Patan, Gujarat; 18<sup>th</sup> December, 2017.



## **2x75 MW- TENDER AMENDMENT-1**

DATE: 30<sup>th</sup> December, 2017

**Ref: RFP No. GIPCL/ Solar/EPC/2017/2x75 MW (AC) Solar PV/ Rev. 1.0**

**To,  
Prospective Bidders,**

**Sub: Amendments to our RFP, “BID FOR DESIGN, ENGINEERING, SUPPLY & PROCUREMENT, CONSTRUCTION, OPERATION AND MAINTENANCE OF 2X 75MW (AC) SOLAR PHOTOVOLTAIC GRID-CONNECTED POWER PLANT AT GUJARAT SOLAR PARK, VILLAGE CHARANKA, TALUKA SANTALPUR, GUJARAT.”**

**Ref: RFP No. GIPCL/ Solar/EPC/2017/2x75 MW (AC) Solar PV/ Rev. 1.0** dated 18<sup>th</sup> Dec, 2017.

GIPCL had floated the Tender for Design, Engineering, Procurement, Supply, Erection, Commissioning and Operation & Maintenance (O&M) of 2x75 MW (AC) Solar Power Projects in Gujarat, on Engineering, Procurement and Construction (EPC) basis (E-Tender No. GIPCL/ Solar/EPC/2017/2x75 MW (AC) Solar PV/ Rev. 1.0)

It has been decided to invite bids for 10 MW (AC) Solar PV Project for Gujarat State Fertilizer and Chemical Limited (GSFC) along with 2X75 MW Projects of GIPCL and GSECL. GIPCL shall carryout techno commercial Bid Evaluation, Reverse auction and identify L1 bidder on behalf of GSFC, subsequently LOI shall be issued to L1 Bidder by GSFC on its own discretion.

All the Scope of Work , Warrantees, Guarantees , Penalty, Incentives etc and other terms and Conditions shall remain same as per 2 X 75 MW Projects and also applicable to 10 MW GSFC Project. Successful bidder has to submit separate Performance Bank Guarantee, Security Deposit, PV Module Insurance/ PBG, etc to GSFC for 10 MW (AC) Project.

It is mandatory for Bidders to submit bids for all three Projects. However there is no change in EMD Amount to be submitted, which will remain same as Rs 3 Cr for total 160 MW.

Site Details of 10 MW (AC)-GSFC Project are as follow:

- i. Location: Gujarat Solar Park, Charanka. as per enclosed Plot Plan
- ii. Total Available Area: 1,80,688 M2.
- iii. Power Evacuation: At 66 KV through Underground Cable ( 3+1spare) to GETCO Substation, Approximate Length of Cable Corridor 3.5 KM (However Bidders may verify / confirm cable route and length before submitting the bids).
- iv. Bidders shall consider fencing of complete Plot area as per given specification of 2X 75 MW Project.
- v. Under Ground RCC -Water Tank for Module cleaning capacity 100000 Liters - Qty- 1 no shall be considered for 10 MW GSFC project..



- vi. Suitable RCC Pipe Culverts wherever required with adequate strength / capacity shall be considered as a part of approach road to GSFC - Plot from main road.
- vii. All Performance Bank Guarantees, Security Deposit, Penalty, Warranty etc. shall also be in the name of GSFC as per the RFP document for additional 10 MW(AC) Solar PV Project.

This Amendment Document shall now be considered as an integral part of the subject EPC Tender. All terms and conditions applicable to the Tender shall now also be applicable to this Amendment Document.

Yours faithfully,  
For and on behalf of  
Gujarat Industries Power Co Ltd,

**Sd/-**

Addl. General Manager (SLPP)  
(Authorized Signatory)

Attachments:

1. GSFC Plot Plan with Area
2. Format for Disclosure of Technology- Appendix- 4A,
3. Schedule of Price Bids- 15A-1, 15A-2, 15B-1
4. List of Mandatory Spares for 10 MW(AC) GSFC Project.



### Appendix 4A: Format of Disclosure of PV Technology Proposed

Proposed DC Capacity for 10 MW (AC) – Project : \_\_\_\_\_ MWp

<b>PV MODULE</b>		
Type	:	Poly-crystalline Silicon
Manufacturer	:	
Model Number	:	
Module Capacity	:	..... W
No. of Cells per Module	:	
No. of Modules	:	
<b>PV INVERTER</b>		
Type	:	Central Inverter



## **SCHEDULE OF PRICE FOR GSFC**

**All Schedules of Prices to be submitted online only**

**Submission Due Date:**

**(As per Bid Submission Instruction of RFP)**

Bid for Design, Engineering, Supply & Procurement, Construction, Operation and Maintenance of 2 x 75MW (A



Photovoltaic Grid-Connected Power Plant at Gujarat Solar Park, Village Charanka, Taluka Santalpur, District Patan, Gujarat; 18<sup>th</sup> December, 2017.

**Table 15A-1: SCHEDULE OF PRICE FOR GSFC–A**

**(BREAK-UP OF PRICE FOR SUPPLY OF EQUIPMENTS)**

Sr. No.	Item	Price for 10 MW (AC) (Without taxes & duties)	Freight & Transportation	Custom Duties (if applicable)	Other Taxes & Duties (if applicable)	GST	Loading of Antidumping Duty for Solar PV Modules (Lump sum)**	Final Price For 10 MW (AC) SPV Plant
		(A)	(B)	(C)	(D)	(E)	(F)	(G) = (A+B+C+D+E+F)
		Rs.	Rs.	Rs.	Rs.	Rs.	(In Rs.)	(In Rs.)
1	Supply of PV Modules							
2	Supply of Inverters							
3	Supply of MMS							
4	Supply of Civil items							
5	66 kV Underground Cable from GSFC plot to GETCO S/S							
6	Supply of Balance of System includes all equipment, materials, accessories etc.(excluding Sr.no.1 to 5)							
7	Total (Rs.) 7 = (1+2+3+4+5+6)							
8	“Supply Price” quoted by the Bidder [in Words as per column (7H)]							



**Note:**

\*\* Bidders have option to load Anti-Dumping Duty (ADD) in price bid for solar PV modules only, in case anti-dumping duty is mentioned same shall be included in total EPC price for bid evaluation purpose.

**Payment of Anti-Dumping Duty:**

- a) If antidumping duty is imposed and becomes applicable before supply of PV Modules which shall be completed within maximum 7 months from the date of LOI in such case, GIPCL/GSECL/GSFC shall reimburse Anti-dumping duty on actual basis based on supporting documents/payment receipt by contractors or anti-dumping duty mentioned at “F” whichever is lower. If it is not mentioned in Colum (F), it will be considered as zero.
  
- b) In case contractor fails to supply PV Modules within 7 months from the date of LOI, reimbursement of Antidumping Duty shall not be payable.



**Table 15A-2: SCHEDULE OF PRICE FOR GSFC**

**(BREAK-UP OF COST FOR CONSTRUCTION, ERECTION, TESTING, COMMISSIONING & COD with GEDA)**

Sr. No.	Item	Price 10 MW (AC) (without taxes & duties)	GST	Other taxes & duties (if any)	Final Price For 10 MW (AC) SPV Plant
		(A)	(B)	(C)	(D)=(A+B+C)
		(In Rs.)	(In Rs.)	(In Rs.)	(In Rs.)
1	General works including construction, erection, testing, commissioning, COD with GEDA etc. of entire plant as per details specified in the Tender documents, on EPC Basis.				
2	<b>“Works Price” quoted by the Bidder: (in Words) (=TOTAL Final Price as per Column (1E))</b>				

Note:

1. EPC cost with taxes and duties shall be considered for evaluation of bid. Thereafter e-Reverse Auction shall be done.
2. No variation due to change in forex rate shall be admissible.
3. Payment shall be made in Indian National Rupees (INR) only. Bidder(s) has to quote their rate in INR only.
4. Arithmetical errors will be rectified on the following basis: If there is a discrepancy between words and figures, the amount written in words will prevail.

**Table 15 B-1: Price Quote for O&M Contract (For 10 MW (AC) Projects)**

**(BREAK-UP OF COST FOR O & M AND NEEGG FOR 10 MW (AC) )**

Sr. No.	Head	Annual Rate for Comprehensive O&M (each year "O&M Contract Price")(A) (In Rs.)	Taxes & Duties (B) (In Rs.)	O&M charges including taxes (C=A+B) (In Rs.)	NEEGG (D) (In kWh)	Discounting factor for NPV @10.69 % (E)	NPV of O&M charges (F=C X E) (In Rs.)
1.	O & M for First Year.					1	
2.	O & M for Second Year.					0.9034	
3.	O & M for Third Year.					0.8162	
4.	O & M for Fourth Year.					0.7374	
5.	O & M for Fifth Year.					0.6661	
6.	O & M for Sixth Year.					0.6018	
7.	O & M for Seventh Year.					0.5437	
8.	O & M for Eighth Year.					0.4912	
9.	O & M for Ninth Year.					0.4437	
10.	O & M for Tenth Year.					0.4009	
11	<b>TOTAL (In Figures)</b>						
12	<b>TOTAL Rate for Comprehensive O&amp;M including all taxes " Total O&amp;M Contract Price" (In Words) –(As per Column 11C)</b>						
13	<b>TOTAL NEEGG (In Words) – ( As per Column 11D)</b>						

# All applicable taxes including service tax and any surcharge or cess thereon are included in the quoted number.

**Note:**

1. The Rate for Comprehensive O&M including all taxes for subsequent year shall not be more than 5% of the previous year. E.g. The Rate for Comprehensive O&M including all taxes of 3<sup>rd</sup> Year shall not be more than 5% of the 2<sup>nd</sup> Year.





2. O&M Contract after 10<sup>th</sup> year shall be mutually decided by the Contractor and GSFC.
3. Bidders are required to submit NEEGG for 1<sup>st</sup> year in above table along with PV syst Report as part of documents to be submitted with Technical Bid. In all other columns of Prices bidders may write “ Quoted on line”

Signature: \_\_\_\_\_ Designation: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Seal of Company / Organization:

\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_



Sr.	Description	Quantity for 10 MW (GSFC)
<b>PV Module</b>		
1	SPV Module	15 Nos
2	Connector Set	75 Nos
<b>PCU</b>		
1	Complete IGBT stacks assembly with drivers for 1 inverter	1 Set
2	Surge protection devices for 1 inverter	1 Sets
3	Fuse (each type & rating) for 1 inverter	1 Sets
4	Fuse Holder (each type & rating) for 1 inverter	1 Sets
5	Power supply SMPS set for 1 inverter	1 Set
6	Control card – each type and rating for 1 inverter	1 Sets
7	Tripping and Closing coil of ACB of AC side, for 1 inverter	1 Sets
8	Cooling Fan (each Type and rating) for 1 inverter	2 Sets
<b>SJB</b>		
1	Complete String Junction Box with component	1 Nos.
2	Surge Protection Devices each type	3 Nos.
3	Junction box fuses	15 Nos.
4	Electronic Module each type	1 Nos.
5	Power Supply Unit	1 Nos.
<b>INVERTER TRANSFORMER &amp; POWER TRANSFORMER</b>		
1	Buchholz relay	1 Set
2	OTI & WTI complete	1 Set.
3	MOG	1 Set.
4	Valve (each type)	1 No.
5	Silica gel breather	1 Set.
6	Bushing & Support insulator (each type)	1 No.
7	Pressure relief device	1 Set.
<b>Structure</b>		
1	Complete Structure assembly for One Array / String	1 Set
<b>AC / DC Distribution Boards</b>		
1	Indicating Lamps of each type used	01 No.
2	Contactors of each type used	01 No.
3	Relay of each type used	01 No.
4	Indicating instruments of each type used	01 No.
5	Circuit Breaker of each type used	01 No.
<b>Battery Charger</b>		
1	Indicating instruments of each type used	01 No.
2	Shunt Resistor of each type used	01 No.
3	Complete Thyristor Bridge/Module of each type used	01 No.
4	Printed Circuit Cards of each type used	01 No.
5	Semi Conducting Type Fast Fuse of each type	01 No.
6	Auxiliary Fuse of each type used	01 No.
7	Auto Transformer of each type used	01 No.
8	Control transformer of each type and rating	01 No.



<b>DC Inverter /UPS</b>		
1	Circuit Breaker of each type used	01 No.
2	Complete Thyristor Bridge/Module	01 No.
3	Printed Circuit Cards – Inverter Control Card and Data Logger Card	01 No.
4	Cooling Fan	01 No.
<b>HT Panel</b>		
1	Protection relays of each type used	01 No.
2	Test plugs	01 No.
3	Auxiliary relays of each type used	01 No.
4	Circuit breaker trip and closing coils each type	01 No.
5	Breaker Position Switch each type and rating	01 No.
<b>LT Panel / switchgear</b>		
1	MCCB	01 No.
2	Current transformer each used type	01 No.
3	Coils for tripping and closing	01 No.
4	Breaker Position Switch each type and rating	01 No.
<b>66 kV Switchyard</b>		
1	Surge arrester for 66 KV	01 No.
2	Disc Insulators string 66 kV (Each type)	1 Set
3	Conductor of each type used each type	10 Mtr
4	Stringing hardware	01 Set
5	Terminal Connectors on high voltage conductors and equipments each type	01 Set
6	Complete drive mechanism including motor for disconnecter switches	01 No.
7	Trip coils for circuit breakers	01 No.
8	Closing coils for circuit breakers	01 No.
9	Complete set of rupture disc	1 Sets
10	66kV Current transformer of each rating	01 No.
11	66kV Voltage transformer of each rating	1 Nos.
12	66kV Post insulator	01 Set
13	66kV Isolator contacts set (Male+Female)	01 Set
14	Maintenance earthing rod for 66kV	01 Set
15	Breaker operating mechanism	01 Set
16	SF6 bottle (To fill SF6 in one complete Circuit breaker)	01 No.
17	Contactors and relays of each type and rating used in circuit breaker and isolator control cubicle / Mechanism box	01 set.
18	Limit switch for the isolator	01 Set
19	66kV Earth switch contact assy.	01 Set (For three pole)
<b>SCADA System</b>		
1	Each type of electronic modules including CPU	1 No. each type
2	Any type of converter like RS 485 to Ethernet, Serial link converter, MODBUS converter etc	1 No. each type
3	Network Switch	1 No each type
4	Any other recommended spares by OEM List shall be submitted	