

THE DURGAPUR PROJECTS LIMITED

NOTICE INVITING TENDER (NIT)

e-Procurement

NIT No: WBDPL/PP/T/PP-435/2021/21-22/E-163 , Dated:-22/12/2021

National Competitive Bidding

For

E-tender cum Reverse Auction for "Design & Engineering, Manufacture/ Procurement, Supply, Erection, Testing and Commissioning of 5 MW Phase-II Grid Connected Ground Mounted Solar Photovoltaic Power Plants at Durgapur Projects Limited(DPL), Durgapur, West Bengal on Turnkey basis with 05 (Five) years comprehensive Operation and Maintenance".

THE DURGAPUR PROJECTS LIMITED (A Govt. of West Bengal Enterprise)

CIN: "U40102WB1961SGC025250"

Dr Bidhan Chandra Roy Avenue, Industrial Area, Durgapur, West Bengal-713201

SECTION - I

Instruction to Bidder (ITB)

BID INFORMATION SHEET

S. No	Aspect	:	Description of Aspect	
1.	Title of the NIT	•	E-tender cum Reverse Auction for "Design & Engineering, Manufacture/Procurement, Supply, Erection, Testing and Commissioning of 5 MW Phase-II Grid Connected Ground Mounted Solar Photovoltaic Power Plants at Durgapur Projects Limited(DPL), Durgapur, West Bengal on Turnkey basis with 05 (Five) years comprehensive Operation and Maintenance".	
2.	NIT NO. & Date	:	WBDPL/PP/T/PP-435/2021/21-22/E-163 dated 22/12/2021	
3.	Publishing Date		22/12/2021	
4.	Document Download start date		23/12/2021	
5.	Pre-bid queries submission end date		15/01/2022	
6.	Pre-Bid Meeting		18/01/2022 ; 11:30 Hrs. If any party wants to attend the meeting via online, please click on the following link:- https://meet.google.com/idd-rgji-kvw	
7.	Bid submission start date		21/01/2022	

S. No	Aspect	:	Description of Aspect
8.	Bid submission end date		05/02/2022
9.	Submission of hard copy of Technical and Financial QR document, Statutory documents, balance sheet etc along with e-challan receipt of online submission of EMD		Upto 08-02-2022; 16:00 Hrs.
10.	Technical Bid opening date		09/02/2022; 13:00 Hrs
11.	Uploading of Technical Bid Evaluation sheet		To be notified through system generated message
12.	Financial Bid opening date		To be notified through system generated message
13.	Uploading of Financial Bid evaluation sheet		To be notified through system generated message
14.	Scope of Work	:	Clause No.ITB1.3
15.	Qualifying Requirement		Technical: Job Experience: a) At least one (01) number 5(Five) MW capacity or two(2) number Three(3)MW Capacity or higher capacity Solar PV project installation at a single location during preceding 07 (Seven) years. b) Minimum 01 (one) number 5(Five) MW or two(2) number Three(3)MW or higher capacity Solar PV Power

S. No	Aspect	:	Description of Aspect	
			Plant Operation and Maintenance (O&M)	
			Financial:	
			MAAT : Last 3 FY shall be Rs. 7.59 Cr	
			1 Order : INR 20.26 Crores	
			2 Order: INR 12.67 Crores	
			3 Order : INR 10.13 Crores	
16.	Cost of the Tender	:	Not applicable	
17.	Bid Security/ EMD	:	Rs. 50,66,000/- (Rupees Fifty Lakhs Sixty six thousand only) to be submitted via online	
18.	Name, Designation,		Partha De, SM (Contract Cell)	
	Address and other	:	Durgapur Projects Limited	
	details			
19.	For any Bid quarry contact Person		1. Partha De, SM (Contract Cell), 9434713057,email: contractcelldpl@gmail.com	
			2. Sudipto Pal,DGM(Projects) 9434735849,email:sudiptopal1971@gmail.com	
20.	Date of Commencement	:	From the date of issuance of Letter Of Award (LOA).	
21.	Time for Completion	:	12 (Twelve) Months from date of LOA	
22.	Possession of Site	:	Immediately on receipt of LOA from Purchaser (DPL).	
23.	Performance guarantee	:	 i. 10% of the Project Cost plus GST in the form of bank guarantee valid for a period of Seventy Two (72) months with further claim period for ninety (90) days thereafter and as per clause from 3.14.2 & 4.2 of general instructions from Scheduled bank 	

S. No	Aspect	:	Description of Aspect	
24			as per DPL approved format. ii. Should be submitted within 21 days from the date of LOA.(BG Format Annexure-2)	
24.	Defects Liability Period each contract (:	Sixty (60) calendar months up to successful completion of Comprehensive O&M job from the date of issue of final completion certificate of first contract of each project (Annexure-6).	
25.	Minimum value of work for each RA Bill of each contract	:	Rs.20.00 Lakhs. (Rupees Twenty lakhs only)	
26.	Performance Warranty	•	5% of the Project Cost plus GST will be retained by the Purchaser for the performance warranty and the same will be paid in 1% yearly after successful completion of the work i.e. up to defect liability period.	
27.	Integrated project performance of Net Minimum Guaranteed Generation (NMGG)	:	Integrated project performance of minimum solar energy generation at the rate of 1.6 MU annually per MW AC with degradation of 0.7% for any reason, from second year onwards.	
28.	Liquidated damages for Delay (LD Clause)	:	 a. Time Delay: 0.5 % of Project Cost plus GST for per week delay or part there of subject to a maximum of 10% of the Project Cost plus GST. b. Milestone Delay: Delay in attaining the milestones by the contractor shall lead to 	

S. No	Aspect	:	Description of Aspect	
			 imposition of intermediary Liquidated damages @0.25% per week of delay upto the maximum extent of 5(Five) Percent of the Project Cost plus GST. c. Total LD value (LD for Time Delay + LD for Milestone Delay) shall not exceed 10% of total Project Cost plus GST. 	
29.	Performance Penalty	:	Penalty shall be levied for performance shortfall on PG test. Maximum penalty for failure of PG test shall be 5% of Project cost plus GST.	
30.	Statutory Taxes	:	 i) GST will be reimbursed at actual by the DPL to the bidder on submission of appropriate supporting documents. ii) In case of any change in custom duty, entry tax. etc. during the currency of the contract, the same shall be borne by the bidder. No reimbursement shall be allowed. 	
31.	Operation and Maintenance Cost (Including all Consumables)	:	Operation and Maintenance Cost (Including all Consumables and spares for Routine and preventive maintenance, Break down maintenance, capital maintenance): 7.5 % of the Project cost (excluding Taxes and Duties) for 5(five) years. Clause No. GCC 3.8.4	
32.	Insurance	:	Insurance of supply, erection work and workmen including third party insurance of each equipment are applicable and to be borne by the Contractor until	

S. No	Aspect	:	Description of Aspect
			final handover of the project upto defect liability period including successful completion of O&M period.
			Contractor will be responsible for maintaining the Insurance Policy for the complete Plant and Facilities during the O&M period also.
33.	Mode of Tendering	:	E-tendering cum Reverse Auction
34.	Payment Terms		Supply: 70% after delivery (Prorata basis, Mobilization Advance paid as per Clause 4.04.02 will be recovered proportionately from bills under this phase of payment) 15% after Erection (Prorata basis) 5% after commissioning (Prorata basis) 5% after PG Test 5% will be retained for performance securities Service: 65% of the contract value will be given pro rata basis after erection of the material (Mobilization Advance paid as per Clause 4.04.02 will be recovered proportionately from bills under this phase of payment). 20% after Testing & Commissioning 5% after PG Test 5% after successful completion 5% will be retained for performance securities Mandatory Spares: 70% of the Supply price production of MDCC 30% of the Supply price production of MRC

S. No	Aspect	:	Description of Aspect

Note: GST rate shall be considered at actual according to directive during actual execution time

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A. Scope of Work& QualifyingRequirements

1.1.Project particulars

Particulars	Description
Design & Engineering	
AC capacity of the solar power plant	5 MW AC
Technology	(Si Mono crystalline)
O&M Period	05 Years
Estimated life of PV Power plant	25 years
Area available for Plant	17.6 Acres (COGP Area of DPL)
Location/Site Details	
Location	The Durgapur Projects Limited premises
Type of Land	Government Land
Ownership	The Durgapur Projects Limited
District	Paschim Bardhaman
State	West Bengal
Electrical Interconnection details	
Power Evacuation & Nearest Substation details	The inverter outputs are transformed at 6.6kV. 6.6 kV indoor type switchgear to be installed in the Power plant control room. It will have two number of outgoing feeder; 6.6kV 400Ams, 3C Al Armoured cable will be used for these feeders and it will be connected with the existing 6.6kV bus of Solar PV Plant Switchgear room (beside Administrative building) aprox2.2 Km away from site
Performance Parameters	, U, I
Minimum values of Performance Ratio(PR) and CUF of the plant after netting off the auxiliary consumption.	PR: 80% CUF: 18.2%

Other Details	
Water and Power for Construction	To be arranged by the Contractor, however
	tapping will be provided within 100 metrs
	from site boundary by the Owner.

- **1.1.2. Name of Work :** *E-tender cum Reverse Auction* for "Design & Engineering, Manufacture/Procurement, Supply, Erection, Testing and Commissioning of 5 MW Phase-II Grid Connected Ground Mounted Solar Photovoltaic Power Plants at Durgapur Projects Limited(DPL), Durgapur, West Bengal on Turnkey basis with 05 (Five)years comprehensive Operation and Maintenance".
- **1.1.3. Nature of Job:** Design & Engineering, Manufacture, Supply, Erection, Testing and Commissioning of 5 MW AC Grid Connected Ground Mounted Solar Photovoltaic Power Plant at Durgapur Projects Limited, Durgapur, West Bengal including warrantee obligation with 05 (Five) years comprehensive Operation and Maintenance.

1.2. SOURCE OF FUND

The Durgapur projects Ltd (hereinafter referred to as **DPL** or "Purchaser") intends to finance the Work covered under these Bidding Documents from the Source as mentioned in the Bid Data Sheet (BDS).

1.3. SCOPE OF WORK:

The brief scope of work covered under this Tender shall be included but not limited to the following:-

1.3.1.The scope of work for each project shall be on the basis of single source responsibility, completely covering all the Equipment/Material specified under the **Technical Specifications**. The work is to be executed on turnkey basis. The Purchaser will not supply any material departmentally. It shall include the following:

- a. Detailed Site Survey of the proposed solar plant area of DPL for Designing and Engineering.
- b. Submission of Detailed Design Report indicating technical suitability of site for installation of the Power Plant with layout plan.
- c. Detail calculation of Solar Energy generation (MWp and MW ac) and selection of Module considering Net Minimum Guaranteed Generation (NMGG) stipulation for the first five year as well as 25 years of life.
- d. Detailed Design of the Equipment/ Materials and Submission of Billing Breakup (BBU) with matching the project cost.
- e. Obtaining approval of engineering drawing, technical data, operational manual etc. and necessary inspection from the Purchaser.
- f. Complete manufacturing including shop testing.
- g. Procurement, Packing, forwarding, transportation and insurance of Equipment/ Material from the manufacturer's works to the Site.
- h. Material Supply, Receipt, storage, preservation, insurance and conservation of Equipment/ Material at the Site.
- i. Grading of site to even out the surface and provide a solid foundation, clearing of vegetation of the Site.
- j. Design and assemble of Module mounting structure (MMS). Detail GA and data sheet of each type of MMS with its fixing arrangement to be provided by the vendor before job execution.
- k. Design calculation of total generation including NMGG requirement for next five years shall be substantiated with latest version of PV system for approval with maximum accurate weather data **like latest version of Solargis.**
- l. Providing power supply for construction purposes.
- m. Construction of RCC/PEB type Inverter room with Power conditioning unit and associated RCC type LT and HT switchgear cum control room.
- n. Construction of Equipment for switchgear room, **SCADA room**, store room, battery & Battery Charger room with all electrical fitting and Control room with Central Monitoring and Control Station, security cabin etc.
- o. Installation and commissioning of equipment as per technical design.