

1.0 INTRODUCTION

NTPC – SAIL Power Company Limited (NSPCL) is a 50:50 joint venture of two Maharatna PSUs i.e. NTPC LTD, an integrated power major and SAIL, one of the largest steel producing companies of India. It has an installed capacity of coal based 814 MW at different SAIL locations i.e Bhilai, Rourkela & Durgapur. Out of 814 MW of installed capacity 564 MW capacity is for captive use of SAIL plant at respective locations. It is also undertaking the development of Coal based units of 1X250 MW at SAIL, Rourkela (RSP) & 2X20 MW at SAIL, Durgapur (DSP), which are under construction phase by BHEL & ISGEC Ltd respectively.

NSPCL is intending to set up a 25 MWp Solar PV plant at Kulti Steel Plant of SAIL in West Bengal. The 25 MWp Solar PV power project shall be implemented in a single EPC package under domestic competitive bidding using Non DCR (open category) manufactured PV modules and cells. Further this EPC package is proposed to be awarded to single bidder in single block of 25 MWp with suitable award criteria intimated separately in the bidding documents.

“Salient Technical Features of the equipment/ systems/ services covered in the **IFB No.CC/C&M/C-496** are mentioned below. These Salient Technical Features are mentioned only to facilitate the prospective bidders to prima-facie understand the requirements under the tender and shall not in any way limit or alter the scope of work and technical features/ specification of equipment/ systems/ services covered in the Bidding Documents. Detailed provisions in regard of scope of work and technical features/specification of equipment/ systems/ services, contained in the Bidding Document shall be final and binding.”

2.0 LOCATION AND APPROACH

District	Paschim Bardhaman
Nearest Highway	GT Road - NH- 2
Nearest Railway Station	Kulti (500 m from the Proposed site)
Nearest Commercial Airport	Durgapur - 50 Km , Kolkata - 228 Km

3.0 LAND AVAILABILITY

Land Availability (in Acres)	113.19 Acre land is available near Indira Gandhi Colony, Kulti in Paschim Bardhaman district of West Bengal for development of 25 MWp Solar PV Project.
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4.0 PROJECT CAPACITY

Name of the Project - **Kulti Solar PV Power Project (25MWp)**

Project Capacity- 25MWp Solar PV Project (To be awarded to single bidder in single block of 25MWp)

5.0 BRIEF SCOPE OF WORK

Please refer detailed NIT/IFB.

6.0 TECHNOLOGY

In Solar Photo Voltaic Power Generation the direct conversion of solar radiation into electricity is achieved by using semiconductor devices “Solar Cells” which work on the principles of photo electric effect.

7.0 POWER EVACUATION SYSTEM

The entire power generated from the proposed Kulti Solar PV Power Project (25 MWp) will be supplied to 33 kV sub-station at Kulti Township after meeting the auxiliary power consumption of the proposed plant.

The power from Solar Plant will be evacuated by means of a double circuit 33 kV overhead lines / cables up to the 33 kV sub-station at Kulti, SAIL Township and further be connected to the existing 33 kV overhead lines to SAIL-Burnpur. However, the existing 33 kV overhead lines shall need to be revamped after assessment of actual work involved.

8.0 OTHER DETAILS

Sl	Item	Details
01	Water Requirement during construction	To be arranged by bidder
02	Power Requirement during construction	To be arranged by bidder
03	Power Requirement during O&M Period	Forms a part of Aux Power Consumption
04	MOEF Clearance	Not Applicable
05	Chief Electrical Inspector Clearance	To be arranged by bidder
06	Vegetation Clearance from State Forest Department	Clearance to be arranged by owner, if necessary, however,vegetation removal is to be done by bidder.
07	Right Of Way (ROW)	To be arranged by Owner from the Solar Plant to Injection Point at 33 kV Sub-station at SAIL Growth Works (SGW), Kulti Township