

Expression of Interest (EOI) **For**

Selection of Solar Power Developers for setting up of 18 MWp Solar Photo Voltaic based grid connected power plant at Giridih Solar City, under solar City Scheme through RESCO Mode at Giridih district in Jharkhand.

EOI No. : 10/JREDA/EOI/SPVGCPP/SC/22-23



Jharkhand Renewable Energy Development Agency (JREDA)

(State Govt. Agency under Department of Energy)

3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.

Ph.: 0651-2491161, Fax: 0651-2491165,

E-mail: info@jreda.com ; Website: www.jreda.com

(JREDA reserves the right to cancel this request for EOI and / or invite afresh with or without amendments to this request for EOI, without liability or any obligation for such request for EOI and without assigning any reason. Information provided at this stage is indicative and JREDA reserves the right to amend / add further details in the EOI document.)

Contact: For any clarification Please Contact at official number +91-0651-2491161, email info@jreda.com

Govt. of Jharkhand
Energy Department
Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.
Ph.: 0651-2491161, Fax: 0651-2491165,
E-mail: info@jreda.com; Website: www.jreda.com
e-Procurement Notice

EOI reference no.: 10/JREDA/EOI/SPVGCPP/SC/22-23

Dated: 18.06.2022

1	Name of the work	Expression of Interest (EoI) for selection of Solar Power Developers for setting up of 18 MWp Solar Photovoltaic based Grid Connected Power Plants at Giridih City under Solar City Scheme through RESCO Mode in Giridih District of Jharkhand.
2	Tentative quantity (MWp)	18 MWp
3	Completion of work	15 (Fifteen) Months
4	PPA Duration	25 (Twenty-five) Years
5	Date of publication of EoI on website: http://jharkhandtenders.gov.in	20.06.2022 (Monday)
6	Date & time of Pre-bid meeting	29.06.2022 (Wednesday) at 1.00 P.M.
7	Last date & time for receipt of online bids	13.07.2022 (Wednesday) upto 05:00 PM
8	Submission of original copies of EoI fee (Processing fee)	13.07.2022 and 14.07.2022 up to 5.00 P.M.
9	EoI Opening Date	15.07.2022 (Friday) at 3.00 P.M.
10	Name & address of office inviting tender	Director, Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002 (Jharkhand)
11	Contact no. of procurement officer	0651-2491163/67/61/9570086777
12	Helpline no. of e-procurement	0651-2491163/67/61

Any corrigendum/addendum can be seen on website: <http://jharkhandtenders.gov.in> & www.jreda.com. Further details can be seen on website: <http://jharkhandtenders.gov.in> & www.jreda.com

Sd/-
Director,
JREDA, Ranchi

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Introduction

Jharkhand Renewable Development Agency (JREDA) incorporated as society under the Society Act, 1860 under the administrative control of the Department of Energy, Govt. of Jharkhand for promoting use of renewable energy sources and having its registered office at Kusai Colony, Doranda, Ranchi, Jharkhand-834002.

Ministry of New and Renewable Energy (MNRE) is implementing several schemes across the country, for promoting the adoption of renewable energy for generation of electricity. These schemes include setting up of Solar Parks, Rooftop Solar, Solar Street Lights, use of MSW for power generation etc.

Hon'ble Prime Minister has desired that all these schemes be converged for implementation of 'Solar Cities' in at least one city in each State of India. Jharkhand's Solar city programme has launched to streamline City/District wise energy portfolio of the state. In this regard, the government of Jharkhand has decided to develop Giridih as model solar city of Jharkhand.

About Solar City Program

Urbanisation and economic development have led to rapid rise in energy demand in urban areas, leading to increase in GHG emissions. Global warming poses a major challenge and is an important concern for the World. An international treaty on Climate Change, The Paris Agreement, was adopted in the year 2015 covering the aspects of climate change mitigation, adaptation, and finance. As of July 2021, 191 countries (including India) are parties to the agreement. The agreement aims to increase the ability of parties to adapt to climate change impacts and mobilise sufficient finance. Under the agreement, each country must determine, plan, and regularly report on its contributions for reducing GHG emissions. In India, energy utilisation is the major source for GHG emissions, contributing to about 68.7% of total GHG emissions. Within the energy sector, electricity, and heat generation accounting for 49% share in GHG emissions, is the single largest activity contributing to GHG emissions¹.

Keeping this in view, India pledged to have 40% of its installed power generation capacity from RE sources by the year 2030 as its NDCs to reduce carbon footprint (as part of The Paris Agreement). In this context, to achieve its target to promote Renewable Energy and thus reduce GHG emissions, the concept of 'Solar Cities' is being promoted. Ministry of New and Renewable Energy (MNRE) is implementing several schemes across the country, for promoting the adoption of renewable energy for generation of electricity. These schemes include setting up of Solar Parks, Rooftop Solar, Solar Street Lights, use of MSW for power generation etc.

Hon'ble Prime Minister, Shri. Narendra Modi has desired that all these schemes be converged for implementation of 'Solar Cities' in at least one city in each State of India. Further, the Prime Minister emphasized the need "for innovative models for distributed solar power" and expressed his desire for "each state to have at least one city (either a capital city or any renowned tourist destination) that will be a fully solar city through distributed solar power generation."

Objective of the Solarization of Giridih City

The main objective of the solar city programme is to reduce the dependence on conventional sources of energy to meet the increasing energy demand and to maximize and accelerate the deployment of solar energy and other sustainable clean energy-based solutions.

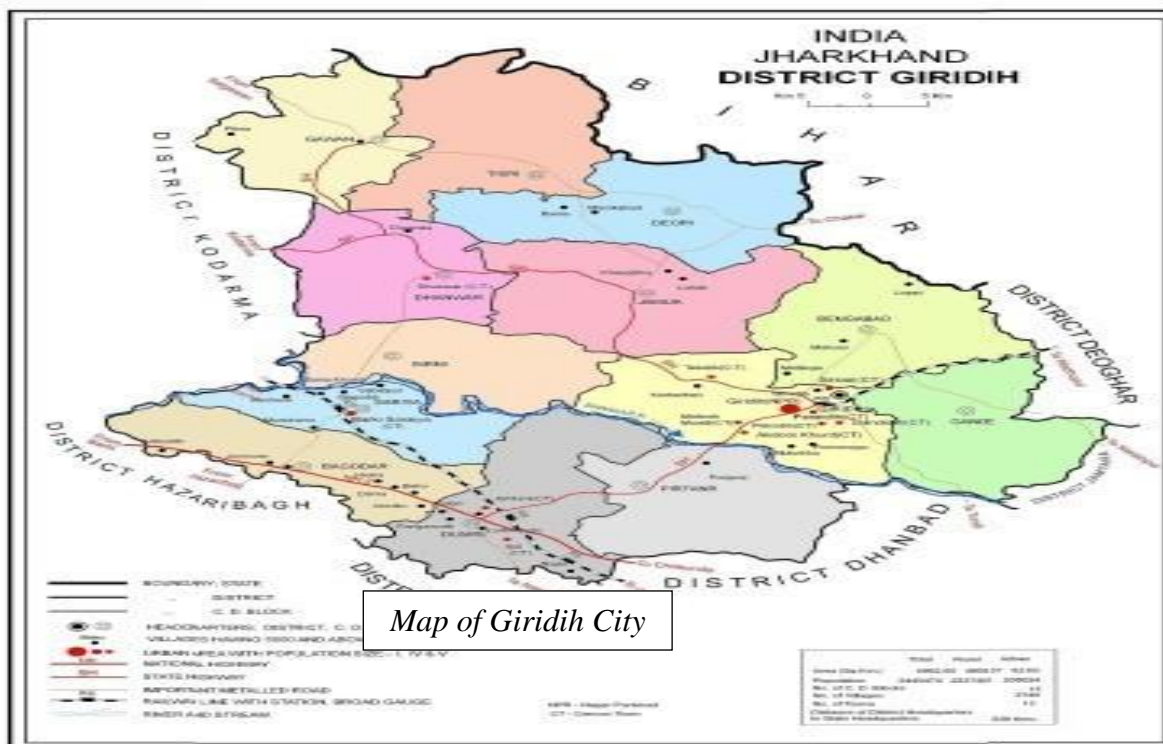
As Giridih is surrounded by dense forest and is located on Central and Lower Plateaus. The region is covered with dense vegetation especially by Sal and Teak forests and the City has great religious importance. As the Parasnath Shrine which is considered as must visit pilgrimage in Jainism. Also today Giridih is one of the emerging city for business and commerce. The rapid urban development and modernization has made the city as one of the major cities in the Jharkhand State. So being an environment sensitive zone with its religious importance and a city with greater growth potential, it ranks high on the State Government's objective to develop the Giridih City as a "Solar City".

Proposed Solar City: Giridih

In line with direction of MNRE, GoI, Government of Jharkhand has selected "Giridih City" to develop as model Solar City of the State. Government of Jharkhand has sanctioned Solar City Scheme accordance to the Concept note issued by MNRE for development of Solar City. To meet the annual electricity demand of Giridih City through solar power generation, it has proposed various Grid Connected interventions such as Ground mounted Solar, Rooftop Solar projects etc. Further, to demonstrate and promote other technologies, few Off-grid PV interventions have also been identified for implementation across Giridih city.

About the City

Giridih is headquarters of the Giridih district of Jharkhand state, India. The district, covering an area of around 4854 km², is bounded on the north by Jamui district and Nawada district of Bihar state, on the east by the districts of Deoghar and Jamtara, on the south by Dhanbad and Bokaro, and on the west by Hazaribagh and Koderma districts. Land of Giridih is rich in coal, and once Giridih was boomed by mica industry, which exported mainly to Japan. There are many small and big mines of coal found in Giridih. According to the 2011 census Giridih district has a population of 2,445,474 roughly equal to the nation of Kuwait or the US state of New Mexico. The district has a population density of 497 inhabitants per square kilometre (1,290/sq. mi).



Climate

Giridih is situated in eastern part (24.18°Latitude and 86.3°Longitude) of India in the state of Jharkhand. The climate of Giridih is generally dry. It is pleasant during winter season between October and March. Summer season starting April, is generally hot, with May being hottest when temperature rises up to 47°C. Often high temperature is accompanied by high humidity levels, especially during June when pre-monsoon rain falls. The average annual rainfall in the region is 1137 mm. The highest rainfall is recorded in the month of July & August. It has an average elevation of 289 meters above Mean Sea Level. Giridih is blessed with good sunshine throughout the year. The average annual insolation in the city is 4.88 kWh/ m²/ day.

Base Year

The base year for the program has been considered at 2021, all the baseline scenario has been formulated in line with data of 2021. The target demand reduction of conventional energy has been made in line with energy data available for the year 2021. Initially only electricity has been targeted under the solar city, however, more options may be explored after the electricity as a target source.

Proposed Interventions & Baseline Demand Assessment

To achieve this objective Solar City, JREDA has planned few technical interventions for effective implementation of various works under the scheme.

Interventions proposed for Gridih under the Solar City scheme are grouped into following categories:

- i. Grid Connected Rooftop Program for Domestic Sector under MNRE phase-II Programme
- ii. Grid Connected Rooftop Program for Commercial Sectors in RESCO Mode
- iii. Solar LED Street Lights
- iv. Ground Mounted Solar Power Plant Development in RESCO/CAPEX

Based on the demand of the city assessed by JREDA & Energy department, the Government has sanctioned following RE technology interventions for capacity building to meet the required demand:-

S. No.	Name of Project	Target Capacity (MW)
1	Grid Connected Rooftop Program for Domestic Sector under MNRE Phase-II Programme	17
2	Grid Connected Rooftop Program for Domestic Sector in RESCO Mode	5
3	Solar Street Lights	1
4	Ground Mounted Solar Power Plant Development in RESCO Mode	18
Total		41

Objective

JREDA intends to invite EOI from developers for the selection of Solar Power Developer for development of solar project of 18 MW at Giridih under Giridih Solar City Scheme with Operation and Maintenance of the same for 25 years under RESCO Mode. 18 MW Solar Park will be developed at single location at Jaridih area of Giridih District in Jharkhand.

Details of Proposed Site and Substation Location :

Name of Site - Jaridih, Giridih, Jharkhand
Village-Jaridih
Name of circle office - Giridih
District-Giridih
Coordinate - 24°11'35.25"N, 86°15'53.94"E
Area in Acres – 72.15 acres



Site Images:





Site Accessibility Options		
1	Nearest Airport	<ul style="list-style-type: none"> • Netaji Subash Chandra Bose International Airport, Kolkata • Birsa Munda Airport, Ranchi
2	Nearest Railway Station	<ul style="list-style-type: none"> • Giridih Railway Station, Giridih • Madhupur, Railway Station

Salient features of EOI:

- JREDA Shall invite bids from prospective developers who are willing to setup solar power plant at mentioned locations of 18 MW under RESCO Mode.
- JREDA will assist in providing required area at all four project locations from the concerned administrative department for setting up of solar power plant project.
- The scope of the Developer will include the Construction of Grid connected Solar Power Plant at with operation and maintenance and the possible evacuation of the power & its transmission arrangement upto the nearest substation of State Transmission Utilities (STUs).
- The developer will bear the total project cost including design, supply/manufacturing, erection & commissioning of the plant and undertake operation & maintenance of the plant throughout the PPA period.
- The possible evacuation arrangement can be done at 33 KV or above voltage level substation.
- The bidders will be asked to submit their concept note and project execution methodology along with the following,
 - a) Technical and financial feasibility of the concept.
 - b) Project Methodology
 - c) Bidder's technical and financial capability.
 - d) Prospective Bidders may propose suggested view against the EoI.

JREDA Scope of Work:

- JREDA will assist in signing of Power Purchase Agreement (PPA) between Solar Project Developer (SPD) and state electricity utility/DISCOM subject to tariff approved by Jharkhand State Electricity Regulatory Commission (JSERC).
- JREDA shall facilitate providing all necessary details as required for the development of solar park at above locations.
- JREDA will facilitate allotment of government land on lease basis upto the project lifecycle.

Bidders Scope of Work:

- The scope of work includes Design, Engineering, Finance, Supply, Erection, Testing and Commissioning of 18 MW Solar Project with Operation and Maintenance for 25 years.
- However, the projects would be technology agnostic within the technology approved by the MNRE i.e. crystalline silicon or thin film or CPV, with or without trackers can be installed. Only commercially established and operational technologies can be used, to minimize the technology risk and to achieve the timely commissioning of the Projects.
- Solar Power developer (SPD) will construct & erect complete evacuation line along with & ABT meters from the switchyard of solar power project to the nearest substation (The possible evacuation arrangement can be done at 33KV or above voltage level substation of state STU). Energy meter (ABT) will be located at state STU's Substation.
- Obtaining all requisite regulatory consents, clearances and permits and maintaining them in full force and effect during the project term.
- Undertake necessary site preparation for installation of equipment and maintain the site/premises throughout contract period.
- Connecting the Power Project with the Interconnection Facilities at the Delivery Point;
- Bidders shall enter into PPA with JBVNL/STU.
- Operation & Maintenance of the plant throughout the PPA period for ensuring generation of contracted solar power.
- Undertake all necessary and reasonable safety precautions with respect to providing the Installation Work, Solar Power, and System Operations that shall comply with all Applicable Laws pertaining to the health and safety of persons and real and personal property.
- The Bidder shall submit their offers along with Project execution methodology, technical and financial eligibility for the project.

Pre-Qualifying Requirements (PQRs)/ Eligibility Conditions

GENERAL

- The Bidder shall be a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto. A copy of certificate of incorporation shall be furnished along with the bid in support of above.
- The firm should not be blacklisted by any Central/State Authority /PSU/ Govt Bodies etc., or any authority in the foreign country. They should not be under Corporate Insolvency Resolution Process (CIRP). A certificate in this regard shall be furnished as per Annexure-A4.
- An applicant, in case of a Joint Venture (here and after termed as JV) are not allowed to participate.

TECHNICAL

- i. The Bidder must have the development experience of cumulative capacity of grid connected project of 50 MW out of which one project should be of 10 MW.at single location under RESCO/BOOT/PPP mode.
- ii. The applicant should have the experience of successful Operation & Maintenance (O&M) of grid connected ground mounted solar power project of 10 MW capacity or above against single contract, for a period of at least Six (06) months, ending on the last date of the month, prior to the original submission date of this EOI.
- iii. The Bidder shall also submit documentary proof of achievement of performance generation guarantee and performance of at least one solar PV power plant of 10 MW which shall be certified from the Developer or the power off-taker of that particular solar PV power plant.
- iv. Bidder shall submit, in support to the above, the list of projects commissioned along with their work order/ LOI and the commissioning certificates along with the certificate of plant being in operation. In case the bidder wants to meet the eligibility criterion through its own power plant, then certificate from Chartered Accountant to that effect will be required to be submitted.

FINANCIAL

Bidders must have to submit audited financial statement for last 3 years in which bidders should have positive net worth.

The applications (EOI) of firms should be accompanied by following documentary evidence in support meeting the above criteria / profile:

- i. Photo-copies of audited balance sheet and profit & loss statements for last three years.
- ii. Photo-copies of GST & Provident Fund Registration Certificates, Income Tax PAN Card.

- iii. Photo-copies of orders/contracts (showing values of projects & work-share of Bidder) and performance certificates of previous supplies/ projects executed (In case of projects executed by a foreign firm/partner in a foreign country, if value / other information cannot be given for confidentiality, the Bidder shall submit maximum possible relevant information to satisfy its credentials).
- iv. To demonstrate the required turnover and net worth a certificate from the chartered accountant is required.
- v. For the purposes of meeting financial requirements only unconsolidated audited annual accounts shall be used. However, audited consolidated annual accounts of the Bidding Company may be used for the purpose of financial requirements provided the Bidding Company has at least twenty six percent (26%) equity in each company whose accounts are merged in the audited consolidated account and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered.
- vi. Tenderers showing work experience certificate from non-government/ non-PSU Organizations should submit copy of tax deduction at sources (TDS) Certificate (S) along-with a certificate issued by registered chartered Accountant, clearly specifying the name of work, total payment received against the work and TDS amount for the work.

Submission of EOI:

Interested Bidders are required to submit the response with the complete information in all respect as per the enclosed **Annexures**. The furnished information shall be supported with relevant documents if any.

- Bidders have to download the EOI document from website (www.jharkhandtenders.gov.in) and submit the scan copy of the cost of the EOI document to be submitted in shape of demand draft of Rs. 10,000/- (Rupees Ten thousand only) in favour of “Director, JREDA” on any Indian Nationalized Bank/Scheduled Bank, payable at “Ranchi”. The EOI fee in original must be submitted from **13.07.2022 and 14.07.2022** up to 5.00 P.M. in the office of JREDA.
- All applications shall be submitted in English.
- Application submitted by Joint Venture is not allowed.
- The interested Bidders /Companies/developers are requested to submit their **project execution methodology and required details as per the format of EOI** through online tender portal.
- The EOI is to be submitted in the manner prescribed below:
- The applicant shall prepare 1(One) Original set of the submittals as detailed below through online tender portal.
 - a. Covering Letter
 - b. Company Profile
 - c. Details of Applicant as per Annexure-A1
 - d. Past Experience Details as per Annexure-A2
 - e. Financial Position as per Annexure-A3

- f. Affidavit as per Annexure-A4
 - g. PAN and GST Registration Certificate
 - h. Memorandum and Article of Association of the applicant.
- The interested companies should fill up the enclosed EOI format with supporting documents and submit together with a covering letter online at tender portal <http://jharkhandtenders.gov.in> .

**Director,
Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, SLDC Building, Kusai, Doranda,
Ranchi- 834002 (Jharkhand)**

Disclaimer:

Prospective respondent to this EOI acknowledges and agrees that:

- JREDA has issued this EOI with the best intention to explore the market for eligible and interested bidders and has no compulsions to enter into definitive contractual agreements. This EOI does not guarantee conversion of this EOI into any definitive contractual agreements.
- It is also agreed that JREDA in its sole discretion, may reject any and all proposals made by respondent(s), may change the conditions relating to the EOI or cancel this EOI at any time without assigning any reason.
- Prospective respondent(s) acknowledge and agree that response to the EOI is purely voluntary action on their part and for any expenditure on this account shall be borne by the respondent(s).
- The applicants shall bear all cost associated with the preparation and submission of the response to this EOI.

Format for EOI
EOI No. 10/JREDA/EOI/SPVGCPP/SC/22-23
Annexure – A1

1	Name of the Company Address:	
2	Country where the Company is registered (Attach Incorporation certificate)	
3	Status of the Company a) Whether registered under the Companies act 1956 the Companies Act2013 b) If not, Country of Incorporation	
4	Constitution of firm (give full details including names of Directors/Partners/Executives etc.) Attach Memorandum and Articles of the Association, Certificate of Registration & Proof of Address, Copy of Power of Attorney.	
5	Particulars of Registration with Government / Semi-Govt. Organization/Public Sector/ Undertaking & Local Bodies/PAN No/TAN No/GST etc. if any	
6	Name of Contact Person, Designation, Phone no & email id	
7	Net Worth of the Company	
8	Annual turnover of the Company	
9	Past Experience in Development of Solar Power plants	
10	Past Experience in operation & Maintenance of Solar Power plants	
11	Type of Technology used in Solar Power plants	
12	Indicative Project Cost (Rs Cr / MW) or Indicative PPA tariff (Rs./kWh)	
13	Project Execution Methodology	

We hereby declare that above information are true and providing such information details are not in violation of any of the Agreements to the best of my knowledge.

Signature:
Name:
Designation:
Place:
(Authorised
Signatory)

Annexure A2

Past Experience Details

EOI No. 10/JREDA/EOI/SPVGCPP/SC/22-23

SI. No.	Description of work	Contract awarding authority	Agreement No. & Date	Cost of Work / Completion cost	Date of commencement of work	Date of completion as per agreement	Actual date of completion	Performance of the Project

Note: a) Completion/Experience and Performance certificate issued by Client to be attached.

We hereby declare that above information are true and providing such information details are not in violation of any of the Agreements to the best of my knowledge.

Signature:
Name:
Designation:
Place:
(Authorised
Signatory)

Annexure-A3

Annual Turn Over

EOI No. 10/JREDA/EOI/SPVGCPP/SC/22-23

It is certified that we have examined the books of accounts of M/s.....(Name & Address of the firm/company) and the detail of the annual turnover from Construction Business /Business during the last 3 financial years are as under-

Financial Year	Annual Turnover (Rs)	Net Worth (Rs)
Year-1		
Year-2		
Year-3		

Financial details during the last three financial years (Copies of Audited Annual report, Accounts or a statement duly certified by a chartered accountant should be enclosed).

Additional Financial information:

1. Details of Working Capital limits from Banks.
2. The agency should not be in CIRP (Corporate Insolvency Resolution Process). Certificate in this regard shall be given.

Annexure-A4

AFFIDAVIT (On Letter Head)

EOI No. 10/JREDA/EOI/SPVGCPP/SC/22-23

I/we, the undersigned, do hereby solemnly affirm and declare that-

1. Neither our firm nor any of the members in any manner as an individual have been declared non-performer by any Organization / Authority / Public Sector Enterprises in India & Abroad, any Government Department in India or Abroad or a multilaterally funded agency during the last Three years prior to the date of our bid submission.
2. As on date of our submission, neither our firm nor any of the members in any manner as an individual are debarred for tendering, blacklisted, suspended in any Central/State Government Department in India or Abroad including authority controlled by them.
3. We have no objection to JREDA requesting to any bank, person, firm or body and any such agency furnishing pertinent information as deemed necessary or to verify this statement or regarding our competence and general reputation.
4. We understand that further qualifying information may be requested by JREDA and we agree to furnish any such information at the request of JREDA within the prescribed time.
5. **We have read and understood all the provisions included in the EOI documents and abide by them.**
6. The information furnished by us is correct and we understand the consequences in case any of the information furnished is not found to be true.

I/we, the undersigned, do hereby solemnly affirm and declare that-
(Signed by the Authorized Representative of the Firm)

Name of the Authorized Representative.

Name of the Firm.

Dated:

- - - End of Annexure - - -