



# **Jharkhand Renewable Energy Development (JREDA)**

**Government of Jharkhand**

**Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

**Tender Reference No. 08/JREDA/GCRT/CMCO/26-27**

**Jharkhand Renewable Energy Development Agency (JREDA)**

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

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**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](http://www.jreda.com)

**e-Procurement Notice**

**Tender Reference No. : 08/JREDA/GCRT/CMCO/26-27**

**Dated: 21.04.2026**

1	Name of the work	Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.
2	Completion of work	<b>90 (Ninety) Days</b>
3	Period of contract	<b>05 (Five) Years</b>
4	Date of publication of NIT on website: <a href="http://jharkhandtenders.gov.in">http://jharkhandtenders.gov.in</a>	<b>28.04.2026 (Tuesday)</b>
5	Last date & time for receipt of online bids	<b>25.05.2026 (Monday)</b> up to 05:00 PM
6	Submission of Bid fee and EMD through Online Via SBI Payment Gateway of Jharkhand Tenders.	<b>25.05.2026 (Monday)</b> up to 05:00 PM
7	Technical Bid Opening Date & Time	<b>28.05.2026 (Thursday)</b> at 4.00 P.M.
8	Name & address of office inviting tender	Director, Jharkhand Renewable Energy Development Agency(JREDA) 3 <sup>rd</sup> Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002 (Jharkhand)
9	Contact no. of procurement officer	0651-2491167/68/61/9570086777
10	Helpline no. of e-procurement	0651-2491167/68/61

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

**Sd/-**  
**Director,**  
**JREDA, Ranchi**

## Section -1

### **NIB No: 08/JREDA/GCRT/CMCO/26-27 List of Important dates & details of Bids**

1.	Name of work	<b>Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract &amp; Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.</b>	
2	Tender reference no.	<b>08/JREDA/GCRT/CMCO/26-27</b>	
3	Mode of submission of tender	Online through <a href="http://www.jharkhandtenders.gov.in">www.jharkhandtenders.gov.in</a>	
4	Cost of Bid document (Non-refundable)	❖ <b>For General Bidder: ₹ 11,800/- (Rupees eleven thousand eight hundred Inc. GST) only.</b> ❖ <b>For MSE of Jharkhand: Rs. Nil</b>	
5	Earnest Money Deposit	❖ <b>For General Bidder: Rs. 4,00,000/- (Four Lakhs only)</b> ❖ <b>For MSE of Jharkhand: Rs. Nil</b>	
6	Date of publication of NIT on website: <a href="http://jharkhandtenders.gov.in">http://jharkhandtenders.gov.in</a>	<b>28.04.2026 (Tuesday)</b>	
7	Date and Time Pre-Bid Meeting	<b>11.05.2026 (Monday) at 3:00 PM</b>	
7	Period of downloading of bidding documents	Start date: 29.04.2026	Time: 10.00 AM
		End date: 25.05.2026	Time: 05.00 PM
8	Bid online submission	Start date: 13.05.2026	Time: 10.00 AM
		End date: 25.05.2026	Time: 05.00 PM
9	Technical bid opening date	Date: <b>28.05.2026 (Thursday)</b>	Time: 04.00 PM
10	Authority inviting bids	Director, Jharkhand Renewable Energy Development Agency (JREDA)	
11	Address	Jharkhand Renewable Energy Development Agency (JREDA) 3rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002. Ph. No: 2491161, Fax No: 0651-2491165 Web site: <a href="http://www.jreda.com">www.jreda.com</a> E-mail: <a href="mailto:info@jreda.com">info@jreda.com</a>	

Note:

- This Bank Guarantee must include SFMS (Structural Financial Management System) as per JREDA Bank Details Which is as:

**Name of Bank: State Bank of India**

**IFSC Code: SBIN0009010**

**Branch Details: Ashok Nagar Branch, Ranchi**

**Place for receiving of online payment receipt of Tender fee & EMD:**

Jharkhand Renewable Energy Development Agency (JREDA), 3<sup>rd</sup> Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002.

**Section-2: Instructions to Bidders**  
**NIB No: 08/JREDA/GCRT/CMCO/26-27**

**A. Detailed instructions & documents to be furnished for online bidding.**

1. The guidelines to submit bid online can be downloaded from website <http://Jharkhandtenders.gov.in>
2. The interested bidders can download the bid from the website "http://Jharkhandtenders.gov.in".
3. To participate in bidding process, bidders have to get 'Digital Signature Certificate (DSC)' as per Information Technology Act-2000 to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mentioned digital signature certificate from any approved vendors (CCA). Bidders, who already possess valid Digital Certificates, need not to procure new Digital Certificate.
4. The bidders have to submit their bids online in electronic format with digital Signature. The bids without digital signature will not be accepted. No proposal will be accepted in physical form.
5. Bids will be opened online as per time schedule mentioned in Section 1
6. Bidders should get ready with scanned copies of the cost of documents & Online EMD as specified in the tender document. Before submission of online bids, bidders must ensure that a scanned copy of all the necessary documents has been attached to the bid.
7. Receipts of Online Submission of EMD & Bid Fee specified in the tender documents should be online (scanned copies) otherwise tender summarily will be rejected.
8. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder must provide the originals to the concerned authority. The department will not be responsible for delays in online submission due to any reason.
9. All the required information for the bid must be filled out and submitted online. If the bid is not found to be uploaded online to the website (<http://Jharkhandtenders.gov.in>), No hard copy is required to be submitted to the office of JREDA.
10. Other details can be seen in the bidding document
11. Note: The agency needs to submit the amount of. 11,800/- (Inclusive of GST@ 18%) through online mode via SBI payment gateway on <https://jharkhandtenders.gov.in>. for the participation in the NIB in between all working days from Date: 13.05.2026 (Monday) at 10.00 am to **25.05.2026 (Monday)** up to 05:00 PM. **Submission of rate/price bid in any form by the bidder in technical section shall lead to the rejection of the bid.**

**B. Details of documents to be furnished for online bidding**

1. Scanned copies of the following documents to be up-loaded in pdf. Format on the website <http://Jharkhandtenders.gov.in>.

- i. Online receipt of Tender fee.
  - ii. Online receipt of EMD
  - iii. GST certificate.
  - iv. PAN Card
  - v. Firm's registration certificate/ Registration certificate of MSE of Jharkhand.
  - vi. Certificate issued by Industry Dept. or MNRE for system manufacturing/ Services.
  - vii. Audited Balance sheet with Profit & loss Account for last three consecutive years i.e., FY 2022-23, 2023-24 & 2024-25 or from the date of establishment whichever is earlier and as applicable.
  - viii. Income tax return certificate of last three years consecutive years i.e., AY 2023-24, 2024-25 & 2025-26 or from the date of establishment whichever is earlier and as applicable.
  - ix. Test Certificate of Battery & PCU.
  - x. JREDA Registration Certificate.
2. Scanned copies of the Annexure as per the enclosed formats should be uploaded after converting the same to .pdf format.
- i. Annexure-1 : Covering letter for Bid fee, EMD & Category.
  - ii. Annexure-2 : Information about the bidding firm.
  - iii. Annexure-3 : Declaration by the bidder.
  - iv. Annexure-4 : Annual Turnover.
  - v. Annexure-5 : Net Worth certificate.
  - vi. Annexure-6 : Format for power of attorney for signing of bid.
  - vii. Annexure-7 : Proof of supply/execution of SPV Items/systems in any SNA/Govt. organization/PSU in the last seven years. Attach copy of orders & its satisfactory completion certificate.
  - viii. Annexure-8 : Technical details & make of the Equipments to be supplied.
  - ix. Annexure-9 : Technical Detail Warrantee Card
  - X. Annexure-14 : Contact Person for the NIB
  - xii. Annexure-15 : Checklist for technical bid
  - xiii. Annexure-16 : Bidder's Declaration of Site Survey/Visit along with Geo-tagged photographs of the location.
3. Duly filled in & digitally signed Price Bid with financial bid.
4. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder must provide the originals to the concerned authority on receipt of such letter, which will be sent through registered post.
5. SBD is not to be uploaded by the bidder. The bidder must give affidavit stating agree / disagree on the conditions in the SBD. The bidders, who disagree on the conditions of SBD, can not participate in the tender.

### **Section-3**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

### **Notice Inviting Bid**

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

#### **Preamble:**

JREDA have installed Rooftop Solar Photovoltaic Grid connected Systems of different capacity at different location during financial years 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21 & 2021-22. This plant was installed on "Turnkey Basis" which includes design, supply of SPV systems with all accessories and equipment's, installation, testing, commissioning and maintenance services for 5 years and CMC period has been expired after five years.

With the help of Financial Assistance from the Government of Jharkhand, JREDA wishes to select competent, experienced and financially sound bidder for "**Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**" The bidders should be a registered company/Firm/Corporation in India (Including MSEs of Jharkhand).

Above work is to be carried out on "Turnkey Basis" which includes Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis for 5 years with free replacement warranty on spare parts against manufacturing defects for five years including Buy Back of Old Battery / PCU. JREDA will provide the list of Govt. buildings where rooftop systems need to be installed. The successful bidders have to execute the Supply, Installation & Commissioning of Grid connected Rooftop SPV Power Plants on Govt. Buildings.

**The Site Details of installed Rooftop Solar Photovoltaic Grid connected Systems of different capacity at different location along with the capacity is as Annexure 19:**

**Note:** The tentative list of the installed Solar Power Plants, 05 Years CMC period expired as on March 2027 is mentioned hereby. This list is tentative and as per the requirement of JREDA, this NIB will cover the all installed Solar Power Plants under different NIBs whose 05 Years CMC Period completed and required the appointment of agencies for further Contract Maintenance.

**Part –I: -The Technical Conditions:**

1. The bidder should be a registered company/ Proprietorship/LLP/ Partnership/ /Firm/ Corporation in India. **Authorized dealers' companies/firms/ corporations and subcontractors are not eligible to participate.**

**2. Bidders claiming benefit of Micro & Small Enterprises (MSEs) of Jharkhand: -**

- i. The manufacturing or Service unit is located within the State of Jharkhand.
- ii. The Head Office or Corporate Office of such registered unit/company/enterprise is within the territorial jurisdiction of Jharkhand.
- iii. "MSE is registered with the Directorate of Industries/District Industries Centre, Khadi and Village Industries Board, Directorate of Handloom, Sericulture and Handicraft of Jharkhand Govt, Industrial Area Development Authorities and National Small Industries Corporation Ltd or any other body specified by Directorate of Industries, Jharkhand Govt from time to time and other industrial units/enterprises which have submitted IBM and been issued Date of Production (DOP) certificate by GM, DIC/MD, Industrial Area Development Authorities/ Director, Industries, GoJ

**or**

MSEs having Udyog Aadhar Number issued by Ministry of Micro, Small and Medium Enterprises, GoI to be duly verified, whether unit is existing/functional and doing regular production at what capacity by GM, DIC/MD, Industrial Area Development Authorities/Director, Industries, GoJ".

- iv. The MSEs /other Enterprises and units must be registered under Jharkhand Goods and Services Tax (JGST) Act-2017 or The Central Goods & Services Tax (CGST) Act 2017.
- v. The MSE /other enterprise and unit must have encouraged local people in employment.
- vi. The MSE /other enterprise and unit must have complied with all statutory and legal formalities of concerned regulators/Act.
- vii. The MSE Unit availing preferential treatment will give an undertaking with respect to point i to vi above including a categorical statement that the product/services being supplied to Govt. Dept. or its agencies has been manufactured/created by the unit located in Jharkhand only, giving details of batch no./date or any other identifiable tag (GSI etc ) as per prevalent established practice and will have to submit compulsorily duly signed copy of Form GSTR-9C (For units having aggregate yearly turnover of more than 2 crores) as prescribed under JGST Act-2017". However, in the case of VAT products/services, Form JVAT-409 (For units having of gross yearly turnover more than 60 lacs) issued by dept. of Commercial taxes, Govt. of Jharkhand.

3. A registered manufacturing/Service company/Firm/Corporation in India (Including MSME of Jharkhand) having Udyog Aadhar Number issued by Ministry of Micro, Small and Medium Enterprises, GoI to be duly verified, whether unit is existing/functional and the Bidders who are local MSMEs and registered under the MSME Development Act, 2006 in the State of Jharkhand as per Section D, Division 35, Group 351 having NIC 5-digit code of 35105 (Electric power generation using solar energy).

4. The bidder should be a functional organization. To substantiate this claim, the bidder should submit the copy of Audited Balance sheet with Profit & loss Account for last three consecutive years i.e., FY 2022-23, 2023-24 & 2024-25 or from the date of establishment whichever is earlier and as applicable, along with Income Tax Return (ITR) for AY 2023-24, 2024-25 & 2025-26 complete set.. These audited accounts should be duly certified by the Statutory Auditor with his stamp.
5. Registered Micro & Small Enterprises (MSMEs) of Jharkhand should submit the attested copy of Registration certificate/ Udyog Aadhar/Udyam issued by the Industry Department, Govt. of Jharkhand duly verified by concerned DIC.
6. The bidder should have valid GST and PAN.
- 7. Contractor Registration in JREDA is mandatory to participate in this tender.**
8. Bidders are required to possess and submit a valid and duly registered Electrical Contractor License in the appropriate category as per applicable regulatory provisions.
9. Bidders are required to maintain an active valid electrical connection, in accordance with the norms prescribed under the Jharkhand State Electricity Regulatory Commission Supply Code and applicable tariff regulations. This requirement is essential to establish that the bidder is operating within the framework applicable to small industries, workshops, or manufacturing units.
10. Bidders are required to clearly specify their category of participation at the time of submission of bids. The permitted categories are as follows:
  - General Category
  - MSE Category
 Necessary supporting documents must be provided in case of MSME Category.
11. Bidders are required to furnish complete details of their registered office address along with adequate information regarding maintenance stock and infrastructure. This disclosure is essential to assess the bidder's capability to effectively carry out AMC/CMC services post-installation and to ensure timely maintenance support.

**Technical Eligibility:**

Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components at Various Districts in the State of Jharkhand is Grouped into 6 Category according to Capacity of plant. **Bidder can participate only in one Category (with/without Battery System) as mentioned below otherwise quoted rate will not be considered for evaluation: -**

Sl. No	Category	Capacity
1	A	1 to 10 kWp (With Battery/Without Battery System)
2	B	10 Above to 30 kWp (With Battery/Without Battery System)
3	C	30 Above to 50 kWp (With Battery/Without Battery System)
4	D	50 Above to 70kWp (With Battery/Without Battery System)
5	E	70 Above to 100Kw.p (With Battery/Without Battery System)
6	F	100Kwp above (With Battery/Without Battery System)

**For General Bidder:** Experience of having successfully completed similar works in any SNA / Govt. Organization / PSU during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:

I. Three similar work equal to the maximum capacity under the category one below the category applied for.

**e.g.,** If bidder is applying for group "B" then he must have three complete sites of 10 kW each.

**or**

II. One similar site of maximum capacity under the category applied for.

**e.g.,** If bidder is applying for group "B" then he must have one complete site of 30 kW.

**For MSEs of Jharkhand:** Experience of having successfully completed similar works in any SNA / Govt. Organization / PSU during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following: -

I. Two similar work equal to the maximum capacity under category one below the category applied for.

**e.g.,** If bidder is applying for group "B" then he must have two complete sites of 10 kW each.

**or**

II. One similar site of maximum capacity under the category applied for.

**e.g.,** If bidder is applying for group "B" then he must have one complete site of 30 kW.

A copy of the work order and certificate indicating its successful execution should be enclosed.

**Note: Bidder shall participate only in one Category (with/without Battery System) mentioned above. Bidder will quote rate in only one category in BOQ otherwise quoted rate will not be considered for evaluation.**

Category	Details of the Category	Required qualification for general bidder	Required qualification for MSEs Bider
A	1 to 10 kWp (With Battery/Without Battery System)	10KW of one system Or 1 KW of 3 no's System	10KW of one system Or 1 KW of 2 no's System
B	10 Above to 30 kWp (With Battery/ Without Battery System)	30KW of of one system Or 10 KW of 3 no's System	30KW of one system Or 10 KW of 2 no's System
C	30 Above to 50 kWp (With Battery/Without Battery System)	50 KW of of one system Or 30 KW of 3 no's System	50 KW of one system Or 30 KW of 2 no's System
D	50 Above to 70kWp (With Battery/Without Battery System)	70 KW of one system Or 50 KW of 3 no's System	70 KW one system Or 50 KW of 2 no's System
E	70 Above to 100Kw.p (With Battery/Without Battery System)	100 KW of one system Or 70 KW of 3 no's System	100 KW of one system Or 70 KW of 2 no's System
F	100Kwp above (With Battery/Without Battery System)	Above 100KW of one system Or 100 KW of 3 no's System	Above 100KW of one system Or 100 KW of 2 no's System

12. Bids from joint ventures are not allowed.

13. The bidder must be in house manufacturing & testing facility & should be suitable equipment to perform testing in house, if bidder have not facility to perform such tests, they need to arrange Lab test facility for the samples in the presence of JREDA or JREDA Representative/ Authorized Third Party And the cost of Lab Testing will be bearded by the Manufacturer. All the expenses for inspection in this regard shall be borne by the Bidder only.
14. Bidders have to submit the details of order received and executed in the last 7 Years. Certificate should be as per the Performa given at **Annexure-8**.
15. Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:
  - a. made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures

**Part –II: -The Financial Conditions:**

The bidder should fulfill the following financial eligibility conditions: -

**1. Financial Eligibility:**

**I. Turnover Requirement:**

(i) **For General Bidder:** Average Annual financial turnover during the last 3 years (FY 2022-23, 2023-24 & 2024-25) certified by chartered Accountant & it should be at least 30% of the estimated cost of Bid Quantity in respective group.

(ii.) **For MSEs of Jharkhand:** Bidder should have the average Annual Turnover of 10% of estimated cost of Bid Quantity in respective group derived from the last three financial years (FY 2022-23, 2023-24 & 2024-25).

**The certificate should be issued by CA with UDIN No. as per the Performa given at Annexure-4 along with the bid documents**

**II. Net worth Requirement:**

(i) **For General Bidder:** Bidder should have Positive Net Worth from the last three financial years ending on 31.03.2025 on the basis of audited annual accounts.

(ii) **For MSEs of Jharkhand:** Bidder should have Positive Net Worth from the last three financial years ending on 31.03.2025 on the basis of audited annual accounts.

**Net worth certificate should be issued by CA with UDIN No. as per the Performa given at Annexure-5 along with the bid documents**

**SECTION-4**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

**INSTRUCTIONS TO BIDDERS**

**Table of Clauses**

Clause	<b>A. General</b>	Clause	<b>D. Submission of Bids</b>
1	Scope of Bid	19	Deadline for Submission of Bids
2	Source of Funds		
3	Eligible Bidders		<b>E. Bid Opening</b>
4	Qualification of the Bidder	20	Bid Opening
5	One Bid per Bidder	21	Process to be Confidential
6	Cost of Bidding	22	Clarification of Bids and
7	Site Visit		Contracting the Employer Examination of bids and
	<b>B. Determination of Responsiveness Bidding Documents And Evaluation</b>	23	
		24	Correction of Errors
8	Content of Bidding Documents	25	Evaluation and Comparison of Bids
9	Clarification of Bidding Documents	26	Preference for Domestic Bidders
10	Amendment of Bidding Documents		<b>F. Award of Contract</b>
	<b>C. Preparation of Bids</b>	27	Award Criteria
11	Language of Bid	28	JREDA Right to Accept any Bid
12	Documents Comprising the Bid	29	Notification of Award
13	Bid Prices	30	Performance Security
14	Currencies of Bid and Payment	31	Advances
15	Bid Validity	32	Corrupt or Fraudulent Practices
16	Earnest Money		
17	Alternative Proposals by Bidders		
18	Sealing and Marking of Bids		

## **A. General**

- 1 Scope of Bid

### **Instructions to Bidders (ITB)**

- 1.1 The JREDA invites bids for the work as described in these documents and referred to as "the works". The name and identification number of the works is provided in the Notice Inviting Bid.
- 1.2 The successful Bidder will be expected to complete the Works by the Intended Completion Date specified in the Part (I)- General Conditions of Contract.
- 1.3 Throughout these documents, the terms "bid" and "tender" and their derivatives (bidder/ tenderer, bid/ tender, bidding/ tendering) are synonymous.

## **2 Source of Funds**

The JREDA has decided to undertake the works of **"Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand."** through funds available for CMC/maintenance of work from Government of Jharkhand and to be implemented through JREDA. Work order as per the availability of fund or only after availability of fund from Government of Jharkhand.

**Note:** The list mentioned in **Annexure-19** is for the solar plants whose CMC period will be expired on March 2027. The given list is tentative and it is not final, as per the requirement of JREDA the plant list may change. JREDA can also include other plant in this list whose CMC period will expire till the period of empanelment through this tender.

## **3 Eligible Bidders**

- 3.1 This Invitation for Bids is open to all bidders as subject to fulfilling the eligibility criteria as per the Notice Inviting Bid.
- 3.2 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the works.

## **4 Qualification of the Bidder**

- 4.1 All bidders shall provide Forms of Bid and Qualification information as per the Section-3, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 4.2 All bidders shall include the following information and documents with their bids in Section 3, Qualification Information unless otherwise stated in the Notice Inviting Bid/ITB.
  - a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business.
  - b) Copy of written power of attorney of the signatory of the Bid for bidding.
  - c) Total monetary value of the similar nature of the works performed for each of the last seven years;

- d) Experience in works of a similar nature and size for each of the last seven years with certificates from the concerned officer or competent authority.
- e) Audited reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the last three years along with ITR.
- f) Authority to seek references from the Bidder's bankers;
- g) Information regarding any litigation or arbitration during the last seven years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;

4.3 Bids from joint venture are not allowed.

4.4 .B (a) Each bidder must produce:

- i) PAN.
- ii) An affidavit that the information furnished with the bid documents is correct in all respects; and
- iii) Such other certificates as defined in the Notice Inviting Bid. Failure to produce the certificates shall make the bid non-responsive.

4.4 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- i) Made misleading or false representations in the forms, statements, affidavits, and attachments submitted in proof of the qualification requirements; and/or
- ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to JREDA.

## **5 One Bid per Bidder**

5.1 Each Bidder shall submit only one Bid for one work. A Bidder who submits more than one Bid will be disqualified.

## **6 Cost of Bidding**

6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the JREDA will, in no case, be responsible or liable for those costs.

## **7 Site Visit**

7.1 The Bidder, at his own cost, responsibility, and risk, is encouraged to visit, examine and familiarize himself with the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for supply & installation of the Works. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Notice Inviting Bid.

7.2 Bidders must submit site visit report in the format of Annexure- **16 & 16(a) before agreement and non-submission of site visit as per Annexure-16, 16 (a) may lead to cancellation of Work Order.**

## **B. Bidding Documents**

8 Content of Bidding Documents

8.1 The set of bidding documents comprises the documents listed below, and addenda issued in accordance with Clause 10 of ITB.

- 1. Notice Inviting Tender
- 2. Instructions to Bidders

3. Qualification Information
4. Conditions of Contract
5. Specifications
6. Bill of Quantities
8. Form of Bid
9. Form of Bank Guarantee.

8.2 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities, forms in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 23 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

**9 Clarification on Bid Documents and Pre-bid Meeting:**

- 9.1 A prospective Bidder requiring any clarification of the bid documents may notify to the JREDA in writing at the JREDA's address indicated in the Notice Inviting Tenders. JREDA's response will be uploaded in form of corrigendum on our website [www.jreda.com](http://www.jreda.com).
- 9.2 The purpose of such a meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 9.3 The bidder is requested to submit any questions in writing or by e-mail so as to reach the JREDA not later than two days before the meeting.
- 9.4 Any modifications of the bid document listed in Clause 8.1 of ITB, which may become necessary as a result of the pre-bid meeting shall be made by the JREDA exclusively through the issue of an Addendum/Corrigendum pursuant to Clause 10 of ITB on website.

**10 Amendment of Bidding Documents**

- 10.1 Before the deadline for submission of bids, the JREDA may modify the bidding documents by issuing addenda/corrigendum.
- 10.2 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the JREDA shall extend, if necessary, the deadline for submission of bids, in accordance with Clause 19.2 of ITB.

**C. Preparation of Bids**

**11 Language of Bid**

- 11.1 All documents relating to the Bid shall be in the language specified in the Notice Inviting Bid.
- 12 Documents Comprising the Bid

**A. Technical Bid – (Fee/Pre-Qualification/Technical Cover)**

**1) EMD & Tender Fee**

- a) Scanned Copy of Demand draft drawn in favour of "DIRECTOR, JREDA", payable at Ranchi towards Cost of Tender Fee and Earnest Money Deposit as specified in the Notice Inviting Bid.

**2) Technical Details & Declaration**

- a) Proposed work programme (work method, time schedule and financial flow), description, and charts as necessary (**Duly to be signed digitally**) to comply with the requirement of the Bidding Document.
- b) Scanned copy of an Affidavit by the Bidder that he/she has accepted the S.B.D.

### 3) Technical Details of documents

Scanned copies/Prescribed Formats of Documents to be attached in "My Document" in .pdf format file duly digitally signed by the bidder.

- a) PAN Card
- b) GST certificate.
- c) Proof of completion of similar works during the last 7 years and list of similar works in hand in the prescribed formats duly signed by the competent authority of the issuing Department.
- d) List of works for which bids already submitted.
- e) Audited financial Report for the last 3 years (up to 31.03.2025) certified by chartered Accountant.
- f) Annual Turn over Details certified by Chartered Accountant.
- g) Net worth certificates certified by Chartered Accountant.
- h) List of current litigant cases in which the bidder is involved.
- i) An affidavit for non-engagement of related persons.
- j) Proof of test certificates of batteries and latest test certificate should confirm as per MNRE specifications which are available on MNRE website. The valid test certificate should be submitted along with bid as per Section 3 Notice Inviting Bid
- k) Authorized address & contact numbers of the bidder as per instruction in the Notice Inviting Bid duly digitally signed.
- l) Undertaking of Bidder that he is able to invest minimum of cash upto 10% as defined in ITB.
- m) Undertaking for validity of bid for 180 days.
- n) All other documents mentioned in Section-2, Instruction to bidders under clause B-Details of documents to be furnished for online bidding.

#### B – Financial Bid – (Finance Cover)

- i) Duly Quoted Complying Note points in the NIB & digitally signed Bill of Quantity (BoQ) in the file supplied by JREDA in .xls format shall be uploaded.
- ii) Declaration by Bidder in the format Section – 6 form of Bid in .pdf format.

NOTE: - a) All the documents should be digitally signed.

12.2 The following documents, which are not submitted with the bid, will be deemed to be part of the bid.

Section Particulars

- i. Notice inviting Tender
- ii. Instruction to the bidders
- iii. Conditions of Contract
- iv. Contract Data
- v. Specifications

### 13 Bid Prices

13.1 The Contract shall be for the whole Works, as described in Section-3 NIB

13.2 The Bidder shall adopt the Item Rate Method as specified in the Notice Inviting Bid only the

same option is allowed to all the Bidders.

13.3 All duties, taxes, royalties, and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.

13.4 The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.

**13.6 Tenderers should quote their rates considering wide variation of site conditions, variation in price of different components as per the reference rate provided in this NIB and keeping the quantum and quality of work in mind. If JREDA anticipates that rate is abnormally low or high, tender may be cancelled.**

#### **14 Currencies of Bid**

14.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees (INR).

#### **15 Bid Validity**

15.1 Bids shall remain valid for a period of 180 (One hundred Eighty) days after the deadline date for bid submission specified in Clause 19 of ITB. A bid valid for a shorter period shall be rejected by the JREDA as non-responsive.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the JREDA may request to the bidders for extension of the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by e – mail. A bidder may refuse the request without forfeiting his Earnest Money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with Clause 16 of ITB in all respects.

#### **16 Earnest Money**

16.1 The Bidder shall furnish, Earnest Money, in the amount specified in the Notice Inviting Bid.

16.2 Submission of EMD through Online Via SBI Payment Gateway of Jharkhand Tenders.

16.3 Any bid not accompanied by an acceptable Earnest Money at the time price bids are called, unless exempted in terms given in the Notice Inviting Bid, shall be rejected by the JREDA as nonresponsive.

16.4 The Earnest Money of unsuccessful bidders will be returned after finalization of the Bid.

16.5 The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required performance Security Deposit.

16.6 The Earnest Money may be adjusted against the required security deposit after Receipt of specific request from the bidder.

16.7 The Earnest Money may be forfeited:

- a) if the Bidder withdraws the Bid after bid opening (technical bid) during the period of Bid validity.
- b) in the case of a successful Bidder, if the Bidder fails within the specified time limit to
  - i. signs the Agreement within as specified time limit as mentioned in W.O. and/or
  - ii. Furnish the required Security Deposit within specified as W.O.

## **17 Alternative Proposals by Bidders**

- 17.1 Bidders shall submit offers that comply with the requirements of the bidding documents, as specified in the NIB including the Bill of Quantities and the basic technical design as indicated in the drawings and specifications. Alternative proposals will be rejected as non-responsive.

### **D. Submission of Bids**

## **18 Sealing and Marking of Bids**

- 18.1 The Bidder shall place the two separate files (File I) marked "Technical Bid" and "Financial Bid" (File –II). The file will have markings as follows:

**Technical Bid:** Technical bid shall comprise of the documents mentioned as per clause no C-Preparation of bids, Technical bid will have opened as per date and time of Technical Bid opening as per clause 20.1 of ITB.)

**Financial Bid:** Financial bid shall be as per clause no C-Preparation of bid and complying **Note Points mentioned in the Section -3 of NIB**, Financial Bids shall be as per specified in clause 12.1 of ITB. All documents are to be signed digitally by the bidder.

- 18.2 The first and second files containing the Technical and Financial Bids shall a) be addressed to the JREDA at the address provided in the Notice Inviting Bid b) bear the name and identification number of the Contract as defined in clause 1.1 of ITB; and c) provide a warning not to open before the specified time and date for Bid opening as defined in clause 20.1 of ITB.

## **19 Deadline for Submission of Bids**

- 19.1 Complete Bids (including Technical and Financial) must be received by the JREDA at the address specified in the Notice Inviting Bid not later than the date and time indicated in the Notice Inviting Bid.
- 19.2 The JREDA may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.3 of ITB, in which case all rights and obligations of the JREDA and the bidders previously subject to the original deadline will then be subject to the new deadline.

### **E. Bid Opening and Evaluation**

## **20 Bid Opening**

- 20.1 The JREDA will open the bids received (except those received late). In the event of the specified date for the submission of bids being declared a holiday for JREDA, the Bids will be opened at the appointed time and location on the next working day.
- 20.2 The files containing the technical bid shall be opened. The document marked "cost of bidding document" will be opened first and if the cost of the bidding documents is not there, or incomplete, the remaining bid documents will not be opened, and bid will be rejected.
- 20.3 In all other cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter, the bidders' names and such other details as the JREDA may consider appropriate, will be announced by the JREDA at the opening.
- 20.4 The JREDA will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 20.3 of ITB.
- 20.5 Evaluation of the technical bids with respect to bid security, qualification information and other information furnished in Part-I of the bid in pursuant to Clause 12.3 of ITB, shall be

taken up and completed and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.

- 20.6 The JREDA shall inform, by email, the bidders, whose technical bids are found responsive, date, time, and place of opening as stated in the Notice Inviting Bid. In the event of the specified date being declared a holiday for the JREDA, the bids will be opened at the appointed time and location on the next working day through they or their representative, may attend the meeting of opening of financial bids.
- 20.7 At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance with clause 20.5 of ITB will be announced. The financial bids of only these bidders will be opened. The remaining bids will be returned unopened to the bidders. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the JREDA may consider appropriate will be announced by the JREDA at the time of bid opening. Any Bid price which is not read out and recorded, will not be taken into account in Bid Evaluation
- 20.8 The JREDA shall prepare the minutes of the opening of the Financial Bids.

**21 Process to be Confidential.**

- 21.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the JREDA's process of bidding or award decisions may result in the rejection of his Bid.

**22 Clarification of Bids and Contacting the JREDA**

- 22.1 No Bidder shall contact the JREDA on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.
- 22.2 Any attempt by the bidder to influence the JREDA's bid evaluation, by any means, bid evaluation, bid comparison, or contract award decision may result in the rejection of his bid.

**23 Examination of Bids and Determination of Responsiveness**

- 23.1 During the detailed evaluation of "Technical Bids", the JREDA will determine whether each Bid (a) meets the eligibility criteria defined in Clauses 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities; and (d) is substantially responsive to the requirements of the bidding documents.

During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions

- 23.2 A substantially responsive "Financial Bid" is one, which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the bidding documents, the JREDA's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids d.) Which strictly adheres to the conditions mentioned in the NIB
- 23.3 If a "Financial Bid" is not substantially responsive, it will be rejected by the JREDA, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

## **24 Corrections of Errors**

- 24.1 Bids determined to be substantially responsive, will be checked by the JREDA for any arithmetic errors. Errors will be corrected by the JREDA as follows:
- a) where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
  - b) Where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern. (If Applicable)
- 24.2 The amount stated in the Bid will be adjusted by the JREDA in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Earnest money shall be forfeited in accordance with Clause 16.6(b) of ITB.

## **25 Evaluation and Comparison of Bids**

- 25.1** The JREDA will evaluate and compare only the bids determined to be substantially responsive in accordance with **Clause 23 of ITB and Section 3 NIB**
- 25.2 In evaluating the bids, the JREDA will determine for each Bid the evaluated Bid price by adjusting the Bid price by making correction, if any, for errors pursuant to Clause 24 of ITB.
- 25.3 If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the JREDA may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, JREDA reserves the right to increase the amount of the performance security at its own discretion set forth in Clause 30 of ITB at the expense of the successful Bidder to a level sufficient to protect the JREDA against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding, and conclusive on the bidder.

## **26 Price Preference**

- 26.1 There will be no price preference to any bidder.

## **F. Award of Contract**

### **27 Award Criteria**

JREDA will award the Contract to the Bidder whose Bid has been successful and who has been empaneled under this Bid Process.

### **28 Empanelment Procedure**

- 28.1 The lowest rate, i.e., L1 received in respective category will be the appropriate rate for awarding the work in each category.
- 28.2 JREDA shall empanel technically qualified bidders on acceptance of discovered lowest (L1) rate under this rate contract for different categories, for which the bidder has accepted the L1 rate.
- 28.3 Allocation of the quantity to MSEs registered in Jharkhand will be made as per the provisions made in Jharkhand Procurement Policy 2019.

- 28.4 JREDA reserves the right to allocate the capacity based on demand and requirement of the Govt. Buildings and may reallocate the left-over quantity to any categories to empanelled agencies.
- 28.5 JREDA will allocate initial capacities/quantities to empanelled bidders based on their bid capacities and requirement. If Bidder is a working agency of JREDA then allocation of capacities/quantities will be done based on the bid capacities and their past performances in JREDA like timely completion of allotted work and timely submission of CMC report and performance certificate marks etc. JREDA will review the progress of each agency. On the basis performance appraisal quantities allocated to agencies will be revised/reallocated based on requirement & availability of funds.

**29 JREDA's Right to accept any Bid and to reject any or all Bids**

- 29.1 Notwithstanding Clause 27 above, the JREDA reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the JREDA's action without any reason.

**30 Notification of Award and Signing of Agreement**

- 30.1 The bidder whose Bid has been accepted will be notified of the award by the JREDA prior to expiration of the Bid validity period by email confirmed by registered letter. This letter (hereinafter and in the Part I - General Conditions of Contract called the "Letter of Acceptance") will state the sum that the JREDA will pay to the Contractor in consideration of the execution and completion of the Works (hereinafter and in the Contract called the "Contract Price").
- 30.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 30.
- 30.3 The Agreement will incorporate NIT document, Work order & subsequent amendments between JREDA and the successful Bidder. It will be signed by the JREDA and the successful Bidder after the security deposit is submitted.
- 30.4 Upon the furnishing by the successful Bidder of the Performance Security, the JREDA will promptly notify the other Bidders that their Bids have been unsuccessful.

**31 Security Deposit:**

- 31.1 Successful General bidder shall submit a security deposit @10% of the allotted work order value in the form of Bank Guarantee/DD/FDR valid for one year on or before 15 days from issuing work order. If Bank Guarantee will not be submitted within stipulated period from the date of issue of work order, then JREDA shall cancel the work order.
- 31.2 Successful MSME bidders shall be required to deposit only 1% of the allotted work order value in the form of Bank Guarantee/DD/FDR secure as per Jharkhand Procurement Policy.
- 31.3 The Security Deposit shall be refunded / released to the bidder after expiry of 60 days from the actual date of successful completion.
- 31.4 The Security Deposit will have to be maintained by the bidder with JREDA till the completion of warrantee period.

**31. Performance Guarantee:**

- 31.1 Successful General bidder shall submit a performance guarantee @5% of the allotted work

order value in the form of Bank Guarantee/DD valid for five years on or before release of any payment.

- 31.2 This Bank Guarantee must include SFMS (Structural Financial Management System) as per JREDA Bank Details Which is as:

**Name of Bank: State Bank of India**

**IFSC Code: SBIN0009010**

**Branch Details: Ashok Nagar Branch, Ranchi**

- 31.3 Successful MSE bidders shall submit a Performance Guarantee @0.5% of the allotted work order value in the form of bank guarantee/DD before release of payment.
- 31.4 The Performance Guarantee will have to be maintained by the bidder with JREDA till the completion of Contract Period.
- 31.5 The Security Deposit/Performance Guarantee shall be submitted in the form of bank guarantee in favour of "Director, JREDA" payable at Ranchi from any Indian Nationalized bank/Scheduled bank.
- 31.6 Non submission of Security Deposit/Performance Guarantee within the time frame, shall lead to forfeiture of EMD and cancellation of LOI/LOA.
- 31.7 If Bidder/MSE unit fails to carry out the work allotted to him as per the provisions of the tender documents then such Bidder/MSE unit may be black listed for future awards of work.

## **32 Five Years Comprehensive Maintenance Contract & Operation (CMCO):**

- 32.1 The Hybrid Solar Power Plant Contract price includes the provision of 5 years mandatory Comprehensive Maintenance Contract & operation (CMCO). To ensure long term sustainability of the system, the bidder must provide his representatives name, full address, mobile number, and photographs to JREDA with one hard copy as well as the names and contact details of all technicians must also be provided. Failure to do shall invite penalty and action.
- 32.2 The Comprehensive Maintenance Contract & Operation shall include servicing & replacement guarantee for parts and components (such as battery, electronics, Inverter, existing PV modules and other hardware) running, operation and maintenance of SPV Power Plant from the date of installation. Battery should be warranted for a minimum life of 5 years. The contractor has to make suitable arrangement for running, operation and maintenance of hybrid solar Power Plant by deputing electrician and other skilled persons required as per the manpower deployment schedule mention in the section-5 so that hybrid solar Power Plant will be functional 24X7 every day. The date of CMCO maintenance period shall begin on the date of actual re-commissioning of SPV Power Plant /equipment. It is mandatory for the contractor to carry out CMC regularly and submit report including maintenance schedule to JREDA monthly. Failure to submit monthly CMC reports timely shall invite penalty and action.
- 32.3 For any issue related to operation & maintenance, a contact number shall be made available to the concerned departments to resolve immediately, if the bidder do not attempt the rectification of any such defect within three days of communication of such complaint to the bidders, the bidder will be liable for a penalty of Rs. 1000 per day beyond three days of reporting of such complaint. Further if the outage of the plant is more than 15 days continuously, then the 50% PBG amount shall be encased by JREDA and if the outage is exceeding more than 60 days than complete PBG amount shall be encased by JREDA. This

will be applicable till 5 years of O&M as per the scope of the RFP. Bidder shall submit monthly CMC report as per the Annexure- 13 with generation data of month within 7 working days of subsequent month.

32.4 The Contractor should have sufficient numbers of skilled staff as per the Manpower deployment schedule mentioned in section -5 for proper maintenance of hybrid solar power plant. The bidder should submit a work plan for implementation of the work and details of person/staff to be deployed for CMCO work.

**33 Preventive/Routine Maintenance:**

This shall be done by the supplier/contractor at least once in every month and shall include activities such as, cleaning and checking the health of the SPV system, cleaning of module surface, topping up of batteries, tightening of all electrical connections, regular checks to identify any leakage of electricity, changing of tilt angle of module mounting structure, cleaning & greasing of battery terminals and any other activity that may be required for proper functioning of the Hybrid Solar Photovoltaic Power Plant. The maintenance record should be kept properly and to be submitted at JREDA office time to time. CMC documents should be certified by Beneficiary.

**34 Breakdown / corrective Maintenance:**

Whenever a complaint is lodged by the user the bidder shall attend the same immediately. It is clarified that effective CMCO means that the bidder should ensure 24 hours smooth working of hybrid SPV Power Plant throughout the CMCO period and therefore, if any complaint in this level of service is found by the JREDA officials and if the bidder do not attempt the rectification of any such defect within three days of communication of such complaint to the bidders, the bidder will be liable for a penalty of Rs. 1000 per day beyond three days of reporting of such complaint.

**35 Advances**

35.1 The JREDA will not provide Mobilization Advance and Advance against the security of equipment as provided in Part I - General Conditions of Contract.

**36 Corrupt or Fraudulent Practices**

The JREDA requires the bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.

**37 Estimated rate for different category**

Estimate unit rate has been derived from L1 rate discovered in Last Financial Year tender i.e NIB 04/JREDA/GCRT/CMCO/2025-26. Details of unit rate for benchmark category wise in as follows: -

SI. No.	Category Details		Estimated Rate per kwp exclusive of GST
1	<b>Category-A</b>	1 to 10 kWp (With Battery System)	63,000.00
2	<b>Category-B</b>	10 Above to 30 kWp (With Battery System)	52,811.00
3	<b>Category-C</b>	30 Above to 50 kWp (With Battery System)	55,000.00
4	<b>Category-D</b>	50 Above to 70kWp (With Battery System)	57,752.00
5	<b>Category-E</b>	70 Above to 100Kw.p (With Battery System)	55,100.00
6	<b>Category-F</b>	100Kwp above (With Battery System)	58,000.00

**38 Timeline/ Completion Period:**

The time of completion shall be adhered as per the timeline defined in the table below:

<b>Sr. No.</b>	<b>Work</b>	<b>Completion Period/Start time</b>
1	Supply, Installation, Testing & Commissioning of Battery and PCU in all respects in good conditions. as per NIT.	4 Months for each site from issuance of Work Order.
2	CMCO Work	From the date of re-commissioning of Batteries and PCU.

## Section-5

### General Terms & Conditions

NIB No: 08JREDA/GCRT/CMCO/26-27

#### Introduction:

The instruction/information contained in the bid documents are for guidance and compliance of the intending bidder. Bidders are advised to obtain clarification from JREDA, if any, prior to submission of their bid, failing which it will be deemed that the stipulation made in the bid documents have been read, understood and are acceptable to the bidder.

Bidder shall bear all costs associated with the preparation and submission of the bid, journeys undertaken by them and subsequent bidding process till the award of the order to successful bidder and the JREDA shall in no case, shall be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

#### 2.0 Scope of work:

The Scope of work for "**Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**" is mentioned below

Supply Five Years Comprehensive Maintenance Contract & Operation (CMCO) of Hybrid Rooftop Solar Power Plants including replacement of PCUs and Batteries and other components as required installed at different government Buildings at Various Districts in the State of Jharkhand.

#### **The Site Details along with the capacity is as per Annexure 18.**

The contract price includes the provision of 5 years operation and mandatory Comprehensive Maintenance Contract & Operation (CMCO) to ensure long-term Sustainability of the system. The contractor should provide his representative's name, full address, mobile number, and photographs to JREDA with one hard copy.

- i. The Operation and Maintenance shall include ensuring operation of system on day-to-day basis. The system should be operational for 24 hours with full illumination from evening to morning. The contract shall include ensuring servicing & replacement guarantee for parts and components (such as battery, electronics, Inverter, PV modules and other hardware of hybrid solar plants for five years. Battery should be warranted for a minimum life of 5 years. The date of CMC shall begin from the date of re-commissioning. It is mandatory for the contractor to carry out CMC regularly and submit report to JREDA on monthly basis.
- ii. **Replacement of PCUs and Batteries with Buy-Back.**
- iii. Replacement of other components as and where required basis.

**iv. Preventive/Routine Maintenance:**

This shall be done by the Contractor twice in a months and shall include activities such as, cleaning and checking the health of the SPV system, cleaning of module surface, topping up of batteries, tightening of all electrical connections, regular checks to identify any leakage of electricity, changing of tilt angle of module mounting structure, cleaning & greasing of battery terminals and any other activity including earth resistance maintenance that may be required for proper functioning of the hybrid Solar plant. The maintenance record should be kept properly and to be submitted at JREDA office time to time.

**v. Breakdown/Corrective Maintenance**

Contractor shall ensure 24 hours smooth operation of Solar Power Plant throughout the CMC period by attending breakdown/routine maintenance immediately. If any complaint regarding system service is found by the JREDA officials and if the Contractor do not attend the rectification of any such defects within three days of communication of such complaint to the contractors, the Contractor will be liable for a penalty of Rs.1000 per day beyond three days of reporting of such complaint.

**vi. Deployment of Manpower**

Successful bidder shall deploy at all times the manpower mentioned below for smooth operation of the hybrid rooftop sola plant.

Buy back of existing battery bank along with inter cell connectors and stack box & PCU of Hybrid solar plant located at various districts in the State of Jharkhand. On the basis of as is where is including transportation etc.

**Note: The Bidder mat get the capacities of Batteries and PCU during the site survey for calculating the buyback. The bidder shall quote according in the Price bid Format. Buyback shall include all the transportation charges.**

**3.0 Bid documents:**

Tender documents shall comprise of all the documents mentioned in this Bid. In addition to these any other documents/amendments/revisions or instructions issued by JREDA from time to time to bidders till due date of opening of the offers, shall also be deemed to be integral part of the bid document.

**4.0 Price:**

The bidder shall quote his price as per schedule of items of work. The contract price rates shall be firm and binding and shall not be subject to any variation except for statutory variation of taxes and duties during the contractual completion period. ***The price shall be exclusive of GST & inclusive of all other taxes & charges and 5 years Comprehensive Maintenance Contract & Operation (CMCO) as per the price bid format.*** The price shall also include designing, manufacturing, inspection, supply, transport, insurance, handling etc. All applicable charges for taking necessary clearance such as commercial tax, road permit etc. wherever required are also deemed to be included in the contract price.

## **5.0 Inspection of the factory and Tests:**

JREDA reserves the right to inspect manufacturer's works/factory to ascertain the capability/availability of necessary equipment and infrastructure required for manufacture of the items offered. JREDA shall have the access and right to inspect the work or any part thereof at any stage and to test the goods to confirm their conformity to the technical specifications. Successful bidder shall inform JREDA at least 15 days in advance of schedule dispatch for technical sample audit.

## **6.0 Payment terms and conditions:**

Project Cost will be divided into Supply, Installation as one part and CMC as second part. Rate of second part will automatically be 20 % of complete Project cost (1st Part+ 2nd Part). In case agency fails to comply CMC as per work order i.e., fails to submit CMC report or fails to attend compliance then after two notice or two months whichever is earlier, 2nd part of work order will be transferred to any of the technically qualified agency under that NIB on quotation basis and the performance bank guarantee of the agency will be forfeited along with necessary action as per prevailing rules. Subject to any deduction which JREDA may be authorized to make under this contract, the contractor shall be entitled to payment as follows:

(a) **90% of the 1<sup>st</sup> Part of Project** cost shall be paid against supply and installation of Battery & PCU in goods in full and in good condition as certified by Consignee and/or JREDA Officials after submission of following documents:

- i. Original Commercial invoice raised from the state of Jharkhand for the supply & installation made in triplicate (1+2).
- ii. Copy of duly raised delivery challan /transportation challan/lorry receipt/dispatch clearance.
- iii. Submission of the E-Way Bill generated for the transportation of major components, i.e., solar modules, batteries, and inverters, from the manufacturing unit to required site location in accordance with E-Way Bill guidelines.

**Note:** - Successful bidders who are awarded the work, shall at the time of submission of bills for payments, be required to submit e-way bills for verification to authenticate the invoices raised. Additionally, they must provide complete details of GST Input Tax Credit (ITC) for validation purposes.

**Further,** as and when required bidders may be required to share access credentials, including passwords, with work Incharge/authorized representatives of JREDA for verification, along with relevant physical supporting documents. Processing of payments shall be strictly subject to satisfactory verification of all such records.

- iv. Duly filled Annexure-12 should be submitted in three sets (one for Consignee record, one for JREDA Hq. and one for JREDA's field Executive Engineer).
- v. Photographs of all the equipment (materials) at destination with signature & seal of Consignee/JREDA Officials. This record should be kept in the office of Consignee for verification.
- vi. Submission of the Insurance paper of each Solar Power Plant (site)
- vii. Submission of Warranty Certificates of the each Component.

(b) **10% of the 1<sup>st</sup> Part** of Project cost shall be paid after satisfactory performance of 60 days of complete system as required in all respects in good conditions as certified by JREDA Officials after submission of following documents:

- i. Copy of Original Commercial invoice raised at the time of supply in triplicate (1+2).

ii. Submission of monthly CMC reports of each Solar Power Plant (site) undertaken by the manufacturer as per **Annexure-13**.

(c) **For CMC: 20% each year of 2<sup>nd</sup> Part** can be release against CMC for Five years. The Payment shall be released after submission of following documents:

- i. Copy of Original Commercial invoice raised at the ending of each year CMC period in triplicate (1+2).
- ii. Submission of monthly CMC reports of each Solar Power Plant (site) undertaken by the manufacturer as per **Annexure-13**.

Payment against CMC (2nd Part) can be also released after submission of duty pledged DD/BG/FDR/TDR of 4% for each year valid up to CMC period. The BG/FDR will be release after submission of CMC documents in prescribed format. JREDA reserves rights to pay agencies against submission of Bank Guarantees/DD/FDR/TDR of equivalent value of 2<sup>nd</sup> Part of the Project Cost (CMC) valid till CMC period of complete system.

#### **7.0 Dispatch Instructions:**

All items/equipment's shall be subject to Pre-Dispatch Inspection (PDI) by JREDA or its authorized representatives at the manufacturing site before their dispatch. The manufacturing site must have sufficient testing facilities. The manufacturer will submit test report with regard conformity to technical specifications and details of materials in prescribed format for the items to be dispatched to work site of JREDA. However, equipment's will be dispatched from the manufacturing site only after the receipt of "Dispatch Clearance" from JREDA after acceptance of test report. No consignment shall be dispatched without the receipt of dispatch clearance from JREDA. No PDI shall be done at any site other than the concerned manufacturing site. Successful bidders have to arrange necessary equipment's for testing the materials to be supplied during the pre-dispatch inspection by JREDA at their manufacturer's unit. Failure to fulfill the PDI conditions shall lead to cancellation of work order and forfeiture of security deposit.

Supply, Installation & Commissioning for the above work must be completed in all respect within 60 days from the date of issue of the work order including Pre-Dispatch Inspection (PDI) of the materials.

#### **8.0 Liquidated Damages for Delay in Completion & CMCO:**

If the supplier fails in the due performance of the contract to deliver any part of the equipment or complete the work within the time fixed under the contract or any extension thereof granted to him by JREDA and/or to fulfill his obligations in time under the contract, he shall be liable to pay to JREDA @0.5% per week maximum up to 10% of work value delayed beyond contract period. The same will be applicable if monthly CMC report will not be submitted within a week of due date.

#### **9.0 Risk & Cost:**

If the contractor fails to complete the awarded work from the scheduled date of completion, then JREDA will be at liberty to cancel the said work order and will get the full or part of left over work to be completed by way of engaging alternate contractor and completion of the said work shall be got completed at risk & cost of the failed contractor and failed contractor shall be liable to pay all the dues to JREDA.

#### **10.0 Insurance:**

The supplier shall arrange for transit and erection insurance of the materials & equipment's for re-commissioning of the hybrid solar plant. **The supplier shall also arrange for insurance of materials & equipment's up to CMCO period.** In case of any theft or damage of equipment during CMC period the same will be responsibility of supplier to get it

rectify at their own cost.

**11.0 Assignment/ Sub-letting:**

The Manufacturer shall not assign or sublet, manufacture, shop testing, packing & forwarding, transportation, transit insurance, supply in whole or part, and its obligations to any third party to perform under the order/contract.

In the event the manufacturer contravenes this condition, JREDA reserves the right to reject the equipment/work contract and procure the same from elsewhere at manufacturer's risk and cost. The Manufacturer shall be solely liable for any loss or damage which JREDA may sustain in consequence or arising out of such replacing of the contract work.

**12.0 Completeness of Tender:**

All fittings, assemblies, accessories, hardware items etc. & safety and protection devices as required shall be deemed to have been included in the tender, whether such items are specifically mentioned in the BoM or not.

**13.0 Compliance with Regulations:**

The supplier/contractor shall comply with all applicable laws or ordinances, codes approved standards, rules and regulations and shall procure all necessary municipal and/or other statutory bodies and government permits & licenses etc. at his own cost. The contractor shall leave the purchaser, Director, JREDA harmless as a result of any infractions thereof.

**14.0 Agreement:**

The successful qualified suppliers shall have to enter into an agreement in the office of the Director, JREDA, in prescribed format before commencement of supply within 7 (Seven) days with required Security Deposit.

**15.0 Income Tax:**

Without prejudice to the obligations of the supplier under law, any income tax which JREDA may be required to deduct by law/statute, shall be deducted at source and shall be paid to income tax authorities on account of the supplier. JREDA shall provide the supplier a certificate for such deductions of tax.

**16.0 Training Program, After Sales Service and Availability of Spare Parts:**

**16.1** The responsibility of organizing training program will rest on the successful bidder. The training program will be organized in consultation with JREDA/Consignee. The training program will focus on operation and maintenance of the system. Printed leaflet/literature should be made available in Hindi by the Supplier regarding the operation and maintenance of their Solar Power Plant.

**16.2** The Supplier shall rectify the fault within 3 days from the Intimation of fault. Failure in rectification of the fault within 3 days from the intimation of fault will impose the penalty on the bidders as per the conditions mentioned in this tender at respective clauses, the supplier shall establish sufficient inventory of spares in the State in consultation with JREDA to provide satisfactory and uninterrupted services during the warrantee period.

**17.0 Force Majeure conditions:**

In the event of either party being rendered unable by force majeure to perform any

Obligation required to be performed by them under this agreement, relative obligation of the party affected by such force majeure shall be treated as suspended during which force majeure condition last.

The term force majeure shall have herein mean riots (other than among the contractor's employee), civil commotion, war (whether declared or not), invasion, act of foreign enemies hostilities, rebellion, insurrection, military coup to usurp power, act of god such as earthquake, lightening, floods, fires not caused by contractor's negligence and other cause which the contractor has no control and accepted as such by the Director, JREDA, whose decision shall be final and binding.

If the work is suspended by force majeure conditions lasting for more than 45 days, the purchasers shall have the option of cancelling this contract in whole or part thereof, at its discretion. The contractor shall not claim for compensation for force majeure conditions.

**18.0 Cancellation of Work Order:**

JREDA will be at liberty to terminate/blacklist in part or full the awarded contract and / forfeit security deposit and/or performance guarantee without prejudicing its rights and affecting the obligations of the Contractor by giving 15 (Fifteen) days' notice in writing in the following events:

- (a) If the contractor/supplier is found defaulter for delayed supply, installation & commissioning, or failure to deliver satisfactory performance or supply of substandard materials.
- (b) If the contractor/supplier fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years CMC as per the provisions mentioned.
- (c) If the Contractor/vendor is involved in any action of moral turpitude.
- (d) While taking decisions for blacklisting of the bidder, his past performance shall also be taken into account.

**19.0 Jurisdiction of the Court:**

All disputes would be settled within Ranchi jurisdiction of court of law only.

## Section-6

### Technical Specification

NIB No: 08/JREDA/GCRT/CMCO/26-27

#### A. Technical Specification of Existing Hybrid Solar Plant

**Introduction: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

**Technical description:**

The participating bidder shall supply only Solar Component's —namely batteries, and PCU —for installation and commissioning that are manufactured by reputed and established companies /make with proven performance record. Only Trusted Solar appliances and Components will be used by Bidder while going through the supply and installation work keeping mind about past Complaints in JREDA regarding components used in previous installation against CMC Operation in last five Years. JREDA Reserve the right regarding issue of Suitable Guidelines for make of reputed Solar Components. Only Trusted Solar appliances and Components will be used by Bidder. It is required that all equipment and appliances proposed for supply, installation, and commissioning - such as Solar PV systems, Solar Modules, and other allied components - must be procured from reputed and established manufacturers. This is necessary to ensure quality, reliability, and long-term performance of the installed systems.

The following are the major components of the system:

- Power Conditioning Unit/ Inverter
- Storage Battery

The Site Wise Technical Description of Battery Bank (Voltage Level and Amp-Hour Capacity) is attached as **Annexure-19** of this tender document.

#### **Detailed Specifications of components to be provided by the agency**

##### **1. Power Conditioning Unit**

The Power Conditioning Unit (PCU) mainly comprises MPPT, Solar Charge Controller and a three phase bi-directional inverter.

The MPPT Charger designed to provide the necessary DC/DC conversion to maximize the power from the SPV array to charge each of battery bank of required AH Capacity (**Refer Annexure-19**) at Voltage of 120 V/240 V/480 V or per the site requirement. The charge controller should be equipped with necessary software that allows precise charging of the battery bank. Many protection features should be included to ensure that no abnormal or out of range charge conditions are encountered by the battery bank. The system should incorporate a front panel display with LEDs and a switch to indicate the "operational status" and "fault status" of the system, reset system faults and implement various operating modes.

The microprocessor-controlled inverter should incorporate Pulse Width Modulation (PWM) technology and should incorporate all the desired safety features.

Important features/protections required in the PCU:

- MPPT
- Array ground fault detection.
- Automatic fault conditions reset for all parameters like voltage, frequency and/or black out.
- Surge arrestors on AC & DC terminals for over voltage protection from lightening induced surges.
- PCU operation from 5<sup>0</sup> to 55<sup>0</sup> C.
- All parameters should be accessible through an industry standard communication link.
- Over load capacity (for 30 sec.) should be 150% of continuous rating.

<b>Operating Parameters</b>	<b>Specifications</b>	
Output Voltage	230/415Volts $\pm$ 1% three phases, 4 wire output. Nominal voltage could be adjusted $\pm$ 5% via system set points.	
Output Frequency	50Hz $\pm$ 0.5% during standalone inverter operation. Inverter to follow generator frequency up to $\pm$ 3 Hz of the nominal output frequency during parallel operation.	
Continuous Rating	<b>As Per Site Requirement</b>	
Surge Rating	Up to 150% of the continuous rating for a minimum of 30 seconds.	
Waveform	Sine wave output	
THD	Less than 3%	
Power Factor	0.8 Leading to 0.8 lagging.	
Efficiency	At 25% load > 85%. At 50% load > 90%. At 75 % load and above > 95%.	
Protection System	PV Side	Reverse Polarity, PV Power Limit, Surge Protection (DC Type-2, Ground fault,
	Battery Side	Reverse Polarity, Over/Under Voltage, Current Limit, ground fault Monitoring, Surge Protection (DC Type-2)
	Grid Side	Anti-Islanding, Over/Under Voltage, Over/Under frequency, Surge Protection (AC Type-2)
	Load Side	Over Load, Short Circuit, Surge protection Type-2
	System Protection	Over Temperature MCB /MCCB, on PV, Battery, Load & Grid Path, Insulation Resistance Monitoring, Residual current monitoring
Alarm Signals	Via system fault relay (potential free contact)	
Front Panel Display	<ul style="list-style-type: none"> <li>Instantaneous per phase Power, voltage, pf, and frequency</li> <li>Battery voltage, current,</li> <li>Solar charge current and ambient temperature</li> <li>Solar radiation</li> <li>Accumulated output KWHrs.</li> </ul>	
Front Panel Metering	<ul style="list-style-type: none"> <li>Battery Volt Meter</li> <li>Battery Amp Meter</li> <li>Solar Amp Meter</li> </ul>	
Front Panel Controls	<ul style="list-style-type: none"> <li>Emergency Stop Button</li> <li>Grid Auto Manual Bypass Switch</li> </ul>	

Front Panel Indicators	<ul style="list-style-type: none"> <li>• Inverter On Line and Grid on Line</li> <li>• Control Power Supply OK</li> <li>• System Fault</li> </ul>
Circuit Breakers	<ul style="list-style-type: none"> <li>• Grid Input</li> <li>• Battery Input</li> <li>• Solar Input (with shunt trip)</li> </ul>
Earthing Provisions	AC bypassing to earth on inverter and DC inputs
Complying Standards	IEC-61683, IEC-60068-2(1,2,14,30), IEC-62116, IEC 61727, IEC 62109-1,2, IEC 60255-27, IEC 61000-2,3,5
<b>DATA Logging</b>	
<b>Operating Parameters</b>	<b>Specifications</b>
Computer Ports	RS232 referenced to ground (non-isolated).
System Features	<ul style="list-style-type: none"> <li>• Adjustable logging period from 60 second averages to 24 hours daily logs</li> <li>• Storage capacity of up to 6 days at 60-minute logs</li> <li>• Time and date stamped log entries</li> <li>• Time and date annotated fault log, holding the fault description and operating statistics</li> <li>• View and change system set point configurations remotely</li> <li>• Bulk log download for immediate data importation into a Spreadsheet</li> </ul>
Logging Attributes	<p><b>System summations</b></p> <ul style="list-style-type: none"> <li>• Site kWh</li> <li>• Inverter input &amp; output kWh</li> <li>• Grid/Gen set kWh</li> <li>• Battery input &amp; output kWh</li> <li>• Solar kWh</li> </ul> <p><b>System Parameters</b></p> <ul style="list-style-type: none"> <li>• Grid/Gen set kW, voltage, pf, frequency</li> <li>• Inverter kW, voltage, pf, frequency</li> <li>• Battery current</li> <li>• Battery voltage</li> <li>• Ambient temperature</li> <li>• Solar charge current</li> <li>• Solar radiation</li> </ul>
Environmental	
Operating Temperature Range	5-50 degrees Celsius
Humidity	0-90% non-condensing
Enclosure	IP-65 For outdoor/IP 30 For indoor

## 2. Battery Bank

A Battery Bank of voltage level 120 V/240 V/480 V and location wise AH Capacity as Per **Annexure- 19** has been used in the system for storing the generated energy from PV modules. The battery bank in the offered SPV systems is maintenance free type for SPV application Lead Acid type AGM-VRLA.

--The batteries are suitable for recharging by means of solar modules via solar charge regulators.

-- The self-discharge of battery should be as per BIS specs.

-- The Amp Hr. charge efficiency should be more than 90%  
Description of the subsystems for replacement.

Technical specifications of the following subsystems which shall be replaced by the agency are:

S. No.	Description	Specifications
1	Battery Bank	<p>The Contractor shall provide the Battery bank of 120 V/240 V/480 V or as per the System, PCS requirement of AH Capacity as per the site requirement.</p> <p><b>The Site wise details of Battery AH Capacity and Voltage level is attached as an Annexure-19.</b></p> <ul style="list-style-type: none"><li>• The batteries should be suitable for recharging by means of solar modules via solar charge regulators.</li><li>• The self-discharge of battery should be as per BIS specs.</li><li>• The Amp Hr. charge efficiency should be more than 90%</li></ul>
2	Codes & Standards	<p>IS 16270 : 2014</p> <p>IS 15549 : 2005 and its amendments</p> <p>IEC 60896-2 ( 1995 )</p>
2	Any other components for smooth operation of Solar Plant	As per site condition

### Spare parts

Bidder should keep stock of essential spares (Control cards, PCB's, Switches fuses etc.) at their nearest service centre and/or at each site at their cost for 5 years maintenance. A recommended list of such spares should be provided by JREDA.

### Installation and re-commissioning & CMC

- Detailed project execution plan should be submitted along with the offer.
- The bidder should quote for installation and commissioning & CMS for Five Years
- The bidder is responsible for arranging all the accessories and measuring instruments required to properly commission the system.

**Format of Covering Letter for EMD & Bid Fee**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

(To be submitted in the official letterhead of the company)

To,  
The Director,  
Jharkhand Renewable Energy Development Agency  
3rd Floor, S.L.D.C. Building,  
Kusai Colony, Doranda,  
Ranchi - 834002.

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

Sir,

We are hereby submitting our offer in full compliance with the terms and condition of the above NIB ..... under category ..... (General/MSE). We have .....(submitted the requisite amount of **"Bid Fee"** & **"EMD"** through online mode **or claimed exemption of MSE bidder**). Bid will be evaluated under the provision of the applied category and no further claim for the change will be accepted for the applied category.

The tender is uploaded on [www.jharkhandtenders.gov.in](http://www.jharkhandtenders.gov.in) as per the requirement of the website separately Technical Bid & Financial Bid.

(Signature of Authorized  
Signatory)  
Name:  
Designation:  
Company Seal:

**Note: MSME bidders of Jharkhand must submit necessary documents for claiming exemption of EMD and Bid fee.**

**Information About The Bidding Firm**  
**NIB No: 08/JREDA/GCRT/CMCO/26-27**

(To be submitted in the official letter head of the company)

SL. No.	Particulars
1.	Name of the Bidder
2.	Address of Bidder with Telephone, Fax, email
3.	Address of the Registered Office
4.	Address of the works
5.	GPS Co-ordinate of Registered Office
6.	GPS Co-ordinate of Factory Campus
7.	Name & Designation of Authorized Signatory for Correspondence (Attach Power of Attorney as per <b>Annexure-6</b> )
8.	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Ltd. Co./Public Sector)
9.	Permanent Account Number (PAN) (Attach proof)
10.	Firm's Registration Number (Attach proof)
11.	GST Number (Attach proof)
12.	Details of in-house testing facility (Attach Proof)
13.	Office/ Dealer and Service network in Jharkhand (Give details)
14.	Particulars of Earnest Money and Bid fee
15.	Place where Materials will be Manufactured
16.	Place where Materials will be Available for Inspection
17.	Other details and remarks, if any

Yours faithfully,

(Signature of Authorized Signatory)

Name :  
 Designation :  
 Company seal :

(Separate sheet may be used for giving detailed information duly signed)

**Declaration by the Bidder**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

(To be submitted in the official letter head of the company)

I/We \_\_\_\_\_ (here in after referred to as the Bidder) being desirous of tendering for the rate contract for work under the above mentioned tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document, DO HEREBY DECLARE THAT

1. The Bidder is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document.
2. The Bidder is capable of executing and completing the work as required in the tender.
3. The Bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
4. The Bidder has no collusion with any employee of JREDA or with any other person or firm in the preparation of the bid.
5. The Bidder has not been influenced by any statement or promises of JREDA or any of its employees, but only by the tender document.
6. The Bidder is financially solvent and sound to execute the work.
7. The Bidder is sufficiently experienced and competent to perform the contract to the satisfaction of JREDA.
8. The information and the statements submitted with the tender are true.
9. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
10. The Bidder has not been debarred/blacklisted by any SNA/ Government Dept. /PSU.
11. This offer shall remain valid for Six months from the date of opening of the tender.
12. The Bidder gives the assurance to execute the tendered work as per specifications terms and conditions.
13. The Bidder confirms the capability to supply and install required no. of systems per month.
14. The Bidder accepts that the earnest money be absolutely forfeited by JREDA if the Bidder fails to undertake the work or sign the contract within the stipulated period.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Format For Financial Requirement – Annual Turnover****NIB No: 08/JREDA/GCRT/CMCO/26-27**

[On the letterhead of Bidding Company]

To,

The Director,  
 Jharkhand Renewable Energy Development Agency  
 3rd Floor, S.L.D.C. Building,  
 Kusai Colony, Doranda,  
 Ranchi - 834002

Dear Sir,

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

We certify that the Bidding Company had an average Annual Turnover of Rs. -----  
 - based on audited annual accounts of the last three years ending 31 03.2025

Sl. No.	Financial Year	Turnover (in Rupees)
1	2022-23	
2	2023-24	
3	2024-25	
	Average Annual Turnover	

UID No.: .....

*Authorized Signatory*  
*(Power of Attorney holder)*

*Statutory Auditor*  
*(Stamp & Signature)*

Date:

**Format For Financial Requirement - Net Worth Certificate****NIB No: 08/JREDA/GCRT/CMCO/26-27**

[On the letterhead of Bidding Company]

To,

The Director,  
 Jharkhand Renewable Energy Development Agency  
 3rd Floor, S.L.D.C. Building,  
 Kusai Colony, Doranda,  
 Ranchi - 834002

Dear Sir,

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

This is to certify that Net worth of \_\_\_\_\_ {insert the name of Bidding Company}, as on 31st March 2025 is Rs \_\_\_\_\_. The details are appended below.

<b>Particulars</b>	<b>Amount (In Rs.)</b>
Equity Share Capital	
Add: Reserves	
Subtract: Revaluation Reserve	
Subtract: Intangible Assets	
Subtract: Miscellaneous Expenditure to the extent not written off and carried forward losses	
Net Worth as on 31 <sup>st</sup> March 2025	

**UID No.:** .....

*Authorised Signatory*  
*(Power of Attorney holder)*

*Statutory Auditor*  
*(Stamp & Signature)*

**Format of Power of Attorney for Signing Bid**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

**POWER OF ATTORNEY**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)**

Know all men by these presents, we .....(name and address of the registered office) do hereby constitute, appoint and authorize Mr. / Ms ..... (name and residential address) who is presently employed with us and holding the position of.....as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for all tenders notified by Jharkhand Renewable Energy Development Agency during 2026-27, including signing and submission of all documents and providing information / Bids to Jharkhand Renewable Energy Development Agency, representing us in all matters before [Insert Name], and generally dealing with Jharkhand Renewable Energy Development Agency in all matters in connection with our bid for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

For

\_\_\_\_\_Signature

Accepted by

.....(Signature)

(Name, Title and Address of the Attorney)

**Note:** The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, lay down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

**Details of Orders Received and Executed in Last 7 Years**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

Details of Orders Received & Executed by the Manufacturer/Supplier for NIB.....from SNA/ Govt. Organization during Last Seven Years.

<b>SL. No.</b>	<b>Name of Agency/ Organization</b>	<b>Purchase Order No., Date &amp; Ordered Qty.</b>	<b>Capacity of SPV Power Plant</b>	<b>Delivery Schedule</b>	<b>Qty. Supplied Within Delivery Schedule</b>	<b>Qty. Supplied After Delivery Schedule</b>	<b>Date of Full Supply</b>	<b>Date of Performance certificate released</b>

Yours faithfully,

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Note:

- (a) Attach Photocopies of Work Orders
- (b) Attach Photocopies of Certificate of Satisfactory Performance Issued by Concerned Nodal Agency/PSU/ Govt. Organization
- (c) Separate sheet may be used for giving detailed information in seriatim duly signed. This bid Performa must be submitted duly signed in case separate sheet is submitted.

**(PERFORMANCE CERTIFICATE ON THE OFFICIAL LETTER HEAD OF CONCERNED DEPARTMENT WITH SEAL AND SIGN BY AUTHORIZED SIGNATORY)**

**CERTIFICATE OF PERFORMANCE – HYBRID SPV POWER PLANTS**

This is to certify that Name of Bidder, Address of Registered Office has successfully completed the works of Comprehensive Maintenance Contract & Operation of .....Nos. SPV power plants (. .... Scheme) against various Sanction of Name of Agency at various locations in..... State, as per following details: -

Sl. No.	Capacity of solar power plants	Year & Scheme	Total no. system	Remarks

This workmanship and performance of the above installed systems are found satisfactory and are in successful operation.

**Seal & Sign (Authorized Signatory)**

**Format for Technical Details****NIB No: 08/JREDA/GCRT/CMCO/26-27**

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

<b>S. N</b>	<b>Particulars</b>	<b>Details</b>	<b>Make</b>
1	Make of Battery and Origin		
2	Type of Battery		
3	No. of Battery		
4	Each Battery Voltage		
5	Each Battery Ah		
6	Battery Bank rating (Voltage & Ah)		
7	Make of PCU and Origin		
8	Rating (KVA) & Number of Inverters.	1.) Rating 2.) No. of Inverters	

**Undertaking**

- a) We agree to supply, installation & commissioning, renovation, the Power Plant as per NIT specifications.
- b) We agree to give performance guarantee as specified and to abide by the scope of the guarantee as prescribed under the tender document.
- c) We agree to operate as per the terms & conditions of the tender.

We undertake to supply quality products for promoting energy efficiency in the era of lighting systems.

(Signature of Authorized Signatory with Name Designation & Company Seal)

**Filling Instructions:**

1. During the Guarantee period JREDA/users reserve the right to cross check the performance of the systems for their minimum performance levels specified in the MNRE specifications.

**Technical Detail Form For Battery & PCS****NIB No: 08/JREDA/GCRT/CMCO/26-27**

(To be submitted in the official letter head of the company)

**Warrantee Card for Battery Bank**

1.	Name & Address of the Manufacturer/ Supplier of the System	
2.	Name & Address of the Purchasing Agency	
3.	Date of Supply of the System	
4.	Details of Battery	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Batch/Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Rated V & AH Capacity at C/20 or C/10 Rated at 27 <sup>o</sup> C	
	(g) Guarantee Valid Up To	
5.	Designation & Address of the Person to be Contacted for Claiming Warrantee Obligations	

**Warrantee Card For Battery Bank**

1.	Name & Address of the Manufacturer/ Supplier of the System	
2.	Name & Address of the Purchasing Agency	
3.	Date of Supply of the System	
4.	Details of PCS	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Batch/Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Rated Capacity	
	(g) Guarantee Valid Up To	
5.	Designation & Address of the Person to be Contacted for Claiming Warrantee Obligations	

(Signature of Authorized Signatory with Name Designation &amp; Company Seal)

**Filling Instructions:**

1. The Guarantee card to be supplied with the system must contain the details of the system supplied as per format given above.
2. During the Guarantee period JREDA/users reserve the right to cross check the performance of the systems for their minimum performance levels specified in the MNRE specifications.

**Price Bid****NIB No: 08/JREDA/GCRT/CMCO/26-27**

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

<b>Sl. No.</b>	<b>Category</b>	<b>Capacity</b>	<b>Estimated Cost per KW With Battery system (Exclusive GST &amp; inclusive of all other taxes &amp; charge) (in Rs.)</b>	<b>Estimated Cost per KW Without Battery System (Exclusive GST &amp; inclusive of all other taxes &amp; charge) (in Rs.)</b>
1	A	1 to 10 kWp (Without Battery System)		
		1 to 10 kWp (With Battery System)		
2	B	10 Above to 30 kWp (Without Battery System)		
		10 Above to 30 kWp (With Battery System)		
3	C	30 Above to 50 kWp (Without Battery System)		
		30 Above to 50 kWp (With Battery System)		
4	D	50 Above to 70kWp (Without Battery System)		
		50 Above to 70kWp (With Battery System)		
5	E	70 Above to 100Kwp (Without Battery System)		
		70 Above to 100Kwp (With Battery System)		
6	F	100Kwp above (Without Battery System)		
		100Kwp above (With Battery System)		

**Note: Price bid Need to be submit in .PDF file in price bid only on company letter head.  
Do not submit in technical part of the bid, which may lead to disqualification.**

**Certificate of supply, installation & commissioning of the work as Proof of Compliance by the Contractor**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

**The details of materials for Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

Name of Plant: - .....

Nos. & Capacity of Batteries:.....

Nos. of Junction Box: .....

PCU Capacity & Nos:.....

Date of Supply:.....

Date of Installation.:.....

**Signature & Seal of the contractor**

**Certificate of JREDA Representative**

Certified that Batteries & PCU has installed & commissioned as per PDI Report and per the specification of NIB and Grid Connected Rooftop Solar Power Plant is working satisfactorily last seven days.

**Signature & Seal of Consignee/JREDA Representative**

**Date.....**

**Format for Monthly O&M and CMC Report****NIB No: 08/JREDA/GCRT/CMCO/26-27**

[On the letterhead of Bidding Company]

To,

The Director,  
 Jharkhand Renewable Energy Development  
 Agency 3rd Floor, S.L.D.C. Building,  
 Kusai Colony, Doranda, Ranchi – 834002.

Dear Sir,

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

Date of Installation.....

JREDA W.O. Order No..... Dated.....

JREDA Dispatch Order No..... Dated.....

Period /Month of OMC and CMC.....

Date of Visit.....

S. N.	Place of Installed System	System Details		CMC activities undertaken by Technician	Remarks
		Solar PV Module			
		Battery			
		PCU /Inverter			
		Any other Component			

Enclosed:

(Tick the enclosed Documents)

- |  |        |
|--|--------|
| 1. Daily Generation Details            | Yes/No |
| 2. Scan Copy of Site Logbook Registers | Yes/No |
| a. Module Cleaning Register            |        |
| b. Site Breakdown Register             |        |

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:



**Format for Site Logbook Registers**  
**(Along with Annexure 13)**

**Format: 1**

<b>Format for Module Cleaning Register</b>				
<b>Date</b>	<b>No. of Cycle</b>	<b>No. of Module Cleaned</b>	<b>Cleaned By</b>	<b>Remark</b>

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Format: 2**

<b>Format for Site Breakdown</b>					
<b>Date</b>	<b>Time</b>	<b>Total Hrs. of Breakdown</b>	<b>Breakdown Type (Fault Message displayed on Screen)</b>	<b>Attended By</b>	<b>Remark</b>

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Contact Person for the NIB**  
**NIB No: 08/JREDA/GCRT/CMCO/26-27**

[On the letterhead of Bidding Company]

1	Contact Person name for the NIB	
2	Designation	
3	Contact No. (phone & mobile)	
4	Fax No.	
5	e-mail ID	
6	Corresponding address with pin code	
7	Remarks	

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Check List of Technical bid

Annexure-15

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

S. No.	Particulars	Yes / No	Page No.
1	Receipt of D. D. towards Tender fee.		
2	Receipt of EMD		
3	GST certificate.		
4	PAN Card		
5	Firm's registration certificate/ Registration certificate of MSE of Jharkhand.		
6	Certificate issued by Industry Dept. or MNRE for system manufacturing or Registration Certificate for Electrical Contractor (Class-I) issued by Energy Department, Govt. of Jharkhand.		
7	Audited Balance sheet and ITR of last three years.		
8	Test certificate of Battery's		
9	Covering letter (Annexure-1)		
10	Information about the bidding firm (Annexure-2)		
11	Declaration by the bidder (Annexure-3)		
12	Annual Turnover (Annexure-4)		
13	Net Worth certificate (Annexure-5)		
14	Format for power of attorney for signing of bid (Annexure-6)		
15	Proof of supply/execution of SPV systems/ materials in any SNA/Govt. Organization/PSU in the last seven years. Attach copy of orders & its satisfactory completion certificate (Annexure-7)		
16	Technical details & make of the Equipment's to be supplied (Annexure-8)		
17	Technical Detail Form Warrantee Card For Battery Bank & PCS (Annexure-9)		
18	Proof of Compliance by the supplier (Annexure-12)		
19	Contact Person for the NIB (Annexure-14)		
20	Checklist of Technical Bid (Annexure-15)		
21	Site Survey Declaration and Form (Annexure-16)		

**\* Please write page number as in the box.**

**Please ensure:**

- i) That all information is provided strictly in the order mentioned in the check list mentioned above.
- ii) Bidders are advised to strictly confirm compliance to bid conditions and not to stipulate any deviation/conditions in their offer. Subsequent to bid submission, JREDA may or may not seek confirmations/clarifications and any offer(s) not in line with Bid conditions shall be liable for rejection.
- iii) Any clarification/confirmation bidder may require shall be obtained from JREDA before submission of the bid. Bidder shall submit complete bidding document including subsequent amendment, modification and revision, duly signed and stamped as a token of having read, understood and accepted all the terms and condition mentioned therein.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Bidder's Declaration**

(Mandatory Format)

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

**[On Bidders Letterhead]**

To  
The Director,  
Jharkhand Renewable Energy Development Agency (JREDA)  
3rd Floor, SLDC Building, Kusai Colony,  
Doranda Ranchi-834 002, Jharkhand

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

dated ..... [insert date]

Dear Sir,

We hereby declare that:

- a. We have gone through the Bid document and verified all terms and conditions.
- b. We have visited to the project location and understood the exact system requirement of JREDA for Grid Connected Rooftop project at various Govt. Buildings in different districts in Jharkhand.
- c. We are submitting Geo-Tagged Photographs as proof of site visit/site survey.
- d. We have no questions or concerns if disqualify on the ground of not visiting the project site.
- e. I / we have never ever been blacklisted and / or there were no debarring actions against us for any default in works of Jharkhand Renewable Energy Development Agency (JREDA) OR any other Organization.
- f. I/we meet all qualifying criteria, subject to be disqualified if I/we:
  - i. made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
  - ii. Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures
  - iii. Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to JREDA.

In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/contract shall be liable for truncation/ cancellation / termination without any notice at the sole discretion of the JREDA.

Failure to comply any points due to any technical or non-technical questions arises due to any presentation in Bid document, Jharkhand Renewable Energy Development Agency (JREDA) will have final say and we hereby agree to that condition.

Dated the \_\_\_\_day of \_\_\_\_\_ , 20

Thanking you,

Yours faithfully,

Name:

Designation:

Place:

NIB No: 08/JREDA/GCRT/CMCO/26-27

**SITE VISIT/SURVEY REPORT**

Sub: **Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

**CHECKLIST**

<b>Parameters</b>	<b>Details</b>
1. Name of Bidder/Contractor	
2. Date of Site visit	
3. Name of District	
4. Name of Division/Cluster	
5. Name of the Building	
6. Name of Concerned Person Facilitating the Site Survey (Officials of the Department)	
7. Contact No. of the Concerned Person Facilitating the Site Survey (Officials of the Department)	
8. Total Capacity (kWp)	
9. Current Status of Hybrid Solar Plant	
10. GPS Coordinate of System	
11. Geo-tag site Photograph (Attached)	

## Annexure-16 (a)

**DETAILS OF THE HYBRID SOLAR PLANT**

<b>Sr. No.</b>	<b>Components</b>	<b>Observations</b>	<b>Remarks</b>
1	Installation of Solar Module	<ul style="list-style-type: none"> <li>No. of Solar Module, Make &amp; Rating</li> </ul>	
		<ul style="list-style-type: none"> <li>AJB available (yes/No)</li> </ul>	
2	Control Room (If Applicable)	<ul style="list-style-type: none"> <li>Dimension (L*B*H)in feet</li> </ul>	
		<ul style="list-style-type: none"> <li>Window available (Yes/No)</li> </ul>	
3	Solar Inverter (PCU)	<ul style="list-style-type: none"> <li>PCU Rating Make</li> </ul>	
		<ul style="list-style-type: none"> <li>PCU healthiness</li> <li>Working/Not Working</li> <li>Need for Replacement</li> </ul>	
		<ul style="list-style-type: none"> <li>ACDB available (Yes/No)</li> </ul>	
4	Battery	<ul style="list-style-type: none"> <li>No. of solar Battery,</li> <li>Make</li> <li>Voltage Rating</li> <li>AH Rating</li> <li>Type of battery</li> </ul>	
6	Earthing System	<ul style="list-style-type: none"> <li>Total No. of Earthing System</li> </ul>	
		<ul style="list-style-type: none"> <li>Earth Pit Construction available (Y/N)</li> </ul>	
		<ul style="list-style-type: none"> <li>Size of Earthing Cable</li> </ul>	
7	Lightning Arrestor	<ul style="list-style-type: none"> <li>LA available (yes/No)</li> </ul>	
		<ul style="list-style-type: none"> <li>No. of LA</li> </ul>	
		<ul style="list-style-type: none"> <li>LA height from Installation</li> </ul>	
8	Safety Equipment Details	<ul style="list-style-type: none"> <li>Fire Extinguisher available (Y/N)</li> </ul>	
		<ul style="list-style-type: none"> <li>Safety Bucket available (Y/N)</li> </ul>	
9	General	<ul style="list-style-type: none"> <li>Sign Board Available(Y/N)</li> </ul>	Yes ( )                  No ( )
		<ul style="list-style-type: none"> <li>Consumer Mobile No.</li> </ul>	

**Note:** I/We, hereby declare that the above information regarding site visit is correct as per actual condition found at the site and misleading/false details furnished for site visit may lead to the cancellation of my work order.

Signature of the Authorized Person of Agency:

Name:

Designation:

Company Seal:

Date:

Place:

Signature of the JREDA Official:

Name:

Designation:

**Annexure-17**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

**JOINT COMMISSIONING REPORT OF HYBRID POWER PLANTS**

**Sub: Rate Contract for Selection of Agencies for Comprehensive Maintenance Contract & Operation (CMCO) of Grid Connected Rooftop Solar Power Plants for Five Years including replacement of PCUs and Batteries and other components as and where required basis at Various Districts in the State of Jharkhand.**

1. JREDA Work Order No.:

2. Name of Contractor:

3. Solar Power Plant Location:

4. Solar Power Plant Capacity:

5. Date of Commissioning:

Date:

Place:

Seal and Signature of the Contractor:

Name:

Designation

**JOINT COMMISSIONING REPORT OF HYBRID POWER PLANTS.**

1. Name of the Site: .....

2. Capacity of Hybrid Solar Power Plant installed----- kWp.

3. Work Order No.:

4. Actual Date of Commissioning:

5. Stipulated Date of commissioning as per W.O.:

6. Extension granted till:

7. Name & address of the contractor: .....

8. This is hereby certified that the contractor ----- has successfully installed & commissioned the ----- kWp Hybrid Power Plant at -----on..... with major components as mentioned in **Annexure 17 (i)** appended hereto, as per the terms and conditions of the work order mentioned at serial No. (3) Above.

9. The work order has been fully executed as per the work order and the SPV Power Plant at ----- of ----- kWp handed over to the Consignee cum User Agency in good working condition. We shall provide complete warranty against all manufacturing defects and defective/erroneous installation for a period of five years from this date of Commissioning. The above-mentioned Hybrid Power Plant is hereby handed over by the contractor to the Consignee cum User Agency in fully satisfactory working condition.

Date:

Place:

Seal and Signature of the Contractor:

Name:

Designation:

SPV Power Plant Installed at ----- of----- kWp have been verified by JREDA Engineer-In -Charge and handed over to consignee in working condition.

Seal and Signature of Consignee cum User Agency  
In -Charge

Name:

Designation:

Seal and Signature of JREDA Engineer-

Name:

Designation:

## Annexure- 17 (i)

NIB No: 08/JREDA/GCRT/CMCO/26-27

<b>Forming integral part of the Joint Commissioning report dated----- showing details of major components installed at-----hybrid Solar Power Plant..kWp Capacity.</b>					
S. N.	Name of the items Installed/works. commissioned at site	Size	Unit	Quantity	Remark
1	<b>Control Room Building:</b> No cable is exposed. Proper casing capping (Conduit pipe) is provided with distribution line. Control Room has been provided by Consignee.	-----	Sq. Mtrs.	N/A	Provided
2	Matting as required for Control Room	Provided			
3	<b>SPV Modules</b> of -----Wp, ----- Cells each of ----- make (Serial No's as mentioned in enclosed <b>Annexure II.</b> )		Wp	Nos.	As per specification
4	<b>SPV Module Mounting Structure</b> for the --- ----- Nos. of modules for ----- kWp capacity unit on structure including design & construction of PCC/RCC foundation base for holding the above structures the work includes necessary excavation, concreting, back filling, shoring and shattering etc.)	----- Modules in ----- -- structure		----- Nos.	As per specification
5	<b>PCU/Inverter:</b> Capacity -----KVA ----- V, Digital sine wave, Make of----- , Suitable for grid tie and hybrid mode of operation along with all protection, controlling, arrangement and required accessories suitable for the power plant commissioned.		KVA	----- No's	As per specification
6	<b>Battery Capacity</b>		AH		As Per Specification
	Lightening Protection System		Numbers	- -----No	
	Over Voltage protection System				
	DCDB		Numbers	- -----No	
	ACDB		Numbers	- --- No	
	<b>Array Junction Box:</b>		Numbers	- --- No's	
	<b>Earthing Protection:</b> The earthing pit is as per IS:3043	OPITS	Numbers	- ---- Sets	
	Cable/wire 4 Sq. mm PVC Copper	-----	Meters		
	Cable/Wire 25 Sq. mm PVC Copper	-----	Meters		

**Note: Write Not Applicable for items not supplied under the work.**

Date:

Seal and Signature of the Contractor:

Name:

Place:

Designation:

**Verification Report of JREDA Engineer-In -Charge:**

Above mentioned **Annexure-I** w.r.t. installation of Hybrid Solar Power Plant of ---kWp at----- have been verified and found as per the specification.

Seal and Signature of JREDA Engineer-In -Charge

Name:

Designation:

**Annexure- (17-ii)**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

***SPV Modules Details***

SPV Modules Installed at \_\_\_\_\_ of - \_\_\_\_\_ kWp Capacity.

Total Capacity -----kWp

Each Modules Capacity----- Wp

Total No of Modules-----Nos.

S. No.	Module SI. No.	S. No.	Module SI. No.	S. No.	Module SI. No.
1		9		17	
2		10		18	
3		11		19	
4		12		20	
5		13		-	
6		14		-	
7		15		-	
8		16		-	

Date:

Place:

Seal and Signature of the Contractor:

Name:

Designation

**Verification Report of JREDA Engineer-In -Charge:**

Above mentioned Module SI. No. w.r.t. installation of Solar Power Plant of ---kWp at-----have been verified and found as per the specification.

Seal and Signature of JREDA Engineer-In -Charge

Name:

Designation:

**Power Conditioning Unit (PCU)/Inverter**

Make:

-----

Sl. No: -----

Photographs Enclosed:

**Verification Report of JREDA Engineer-In -Charge:**

Above mentioned photograph w.r.t installation of Solar Power Plant of ---kWp at----- have been verified and found as per the specification.

Date:

Seal and Signature of the Contractor:

Place:

Name:

Designation

**Battery Bank**

Make.....

Sl.No.....

Photographs Enclosed

Date:

Seal and Signature of the Contractor:

Place:

Name:

Designation

**Verification Report of JREDA Engineer-In -Charge:**

Above mentioned photograph w.r.t installation of Solar Power Plant of ---kWp at----- have been verified and found as per the specification.

Seal and Signature of JREDA Engineer-In -Charge

Name:

Designation:

## **Annexure-18: Operation and Maintenance Guidelines Hybrid PV Plants**

**NIB No: 08/JREDA/GCRT/CMCO/26-27**

For the optimal operation of a PV plant, maintenance must be carried out on a regular basis.

All the components should be kept clean. It should be ensured that all the components are fastened well at their due place.

Maintenance guidelines for various components viz. solar panels, inverter, wiring etc. are discussed below:

### **1. SOLAR PANELS**

Although the cleaning frequency for the panels will vary from site to site depending on soiling, it is recommended that

The panels are cleaned at least once every fifteen days.

- Any bird droppings or spots should be cleaned immediately.
- Use water and a soft sponge or cloth for cleaning.
- Do not use detergent or any abrasive material for panel cleaning.
- Iso-propyl alcohol may be used to remove oil or grease stains.
- Do not spray water on the panel if the panel glass is cracked or the back side is perforated.
- Wipe water from module as soon as possible.
- Use proper safety belts while cleaning modules at inclined roofs etc.
- The modules should not be cleaned when they are excessively hot. Early morning is particularly good time for module cleaning.
- Check if there are any shade problems due to vegetation or new building. If there are, make arrangements for removing the vegetation or moving the panels to a shade-free place.
- Ensure that the module terminal connections are not exposed while cleaning; this poses a risk of electric shock.
- Never use panels for any unintended use, e. g. drying clothes, chips etc.
- Ensure that monkeys or other animals do not damage the panels.

### **2. CABLES AND CONNECTION BOXES**

- Check the connections for corrosion and tightness.
- Check the connection box to make sure that the wires are tight, and the water seals are not damaged.
- There should be no vermin inside the box.
- Check the cable insulating sheath for cracks, breaks or burns. If the insulation is damaged, replace the wire.
- If the wire is outside the building, use wire with weather-resistant insulation.
- Make sure that the wire is clamped properly and that it should not rub against any sharp edges or corners.
- If some wire needs to be changed, make sure it is of proper rating and type.

### **3. INVERTER**

- The inverter should be installed in a clean, dry, and ventilated area which is separated from, and not directly above the battery bank.
- Remove any excess dust in heat sinks and ventilations. This should only be done with a dry cloth or

brush.

- Check that vermin have not infested the inverter. Typical signs of this include spider webs on ventilation grills or wasps' nests in heat sinks.
- Check functionality, e.g., automatic disconnection upon loss of grid power supply, at least once a month.
- Verify the state of DC/AC surge arrestors, cable connections, and circuit breakers.

#### 4. BATTERY BANK

- Check the battery top ups are clean.
- Check the Batteries are charged fully During day time.
- Check battery state of charge (SoC) using a refractometer.
- Check Accumulation of acid and dust to accumulate on battery or stand.
- Check the ventilation system of the battery room is working properly.
- Check for the bulging of VRLA batteries.
- Check for signs of corrosion or sulfation at any of the battery or cell terminals.
- Check the tightness of all interconnections between batteries, cables, charge controllers, inverters.

#### 5. SHUTTING DOWN THE SYSTEM

- Disconnect system from all power sources in accordance with instructions for all other components used in the system.
- Completely cover system modules with an opaque material to prevent electricity from being generated while disconnecting conductors.
- To the extent possible, system shutdown will not be done during day time or peak generation.

### INSPECTION AND MAINTENANCE SCHEDULE

Component	Activity	Description	Interval	By
PV Module	Cleaning	Clean any bird droppings/ dark spots on module	Immediately	User/Technician
	Cleaning	Clean PV modules with plain water or mild dishwashing detergent. Do not use brushes, any types of solvents, abrasives, or harsh detergents.	Fortnightly or as per the site conditions	User/Technician
	Inspection (for plants > 100 kWp)	Use infrared camera to inspect for hot spots; bypass diode failure	Annual	Technician

PV Array	Inspection	Check the PV modules and rack for any damage. Note down location and Serial number of damaged modules.	Annual	User/Technician
	Inspection	Determine if any new objects, such as vegetation growth, are causing shading of the array and move them if possible.	Annual	User/Technician
	Vermin Removal	Remove bird nests or vermin from array and rack area.	Annual	User/Technician
Junction Boxes	Inspection	<ol style="list-style-type: none"> <li>1. Inspect electrical boxes for corrosion or intrusion of water or insects.</li> <li>2. Seal boxes if required. Check position of switches and breakers. Check operation of all protection devices.</li> <li>3. protection devices.</li> </ol>	Annual	Electrician
Wiring	Inspection	Inspect cabling for signs of cracks, defects; loose connections, overheating, arcing, short or open circuits, and ground faults.	Annual	Electrician
Inverter	Inspection	<ol style="list-style-type: none"> <li>1. Observe instantaneous operational indicators on the faceplate of the inverter to ensure that the amount of power being generated is typical of the conditions.</li> <li>2. Inspect Inverter housing or shelter for physical maintenance, if required.</li> </ol>	Monthly	Electrician
Inverter	Service	Clean or replace any air filters.	As needed	Electrician

Battery Bank	Inspection	<ol style="list-style-type: none"> <li>1. Check the battery top ups are clean.</li> <li>2. Check the Batteries are charged fully During day time.</li> <li>3. Check battery state of charge (SoC) using a refractometer.</li> <li>4. Check Accumulation of acid and dust to accumulate on battery or stand.</li> <li>5. Check the ventilation system of the battery room is working properly.</li> <li>6. Check for the bulging of VRLA batteries.</li> <li>7. Check for signs of corrosion or sulfation at any of the battery or cell terminals.</li> <li>8. Check the tightness of all interconnections between batteries, cables, charge controllers, inverters.</li> </ol>	Monthly	Electrician
Battery Bank	Service	<ol style="list-style-type: none"> <li>1. Battery tops ups to be cleaned.</li> <li>2. Clean Accumulation of acid and dust to on battery or stand.</li> <li>3. Replace the batteries in which the bulging is observed.</li> </ol>	As needed	Electrician

		4. Clean corrosion or sulfation at any of the battery or cell terminals.  5. Proper tightness of all interconnections between batteries, cables, charge controllers, inverters.		
Instruments	Validation	Spot-check monitoring instruments (Pyranometer etc.) with standard instruments to ensure that they are operational and within Specifications.	Annual	PV Specialist
Transformer (if Applicable)	Inspection	Inspect transformer oil level, temperature gauges, breather, silica gel, meter, connections etc.	Annual	Electrician

➤ **Quality Certification, Standards and Testing for Hybrid Rooftop Solar PV Systems/Power Plants:**

Quality certification and standards for Hybrid solar PV systems are essential for the successful mass-scale implementation of this technology. It is also imperative to put in place an efficient and rigorous monitoring mechanism, adherence to these standards. Hence, all components of Hybrid rooftop solar PV system/ plant must conform to the relevant standards and certifications given below:

<b>Solar PV Modules/Panels:</b>	
IEC 61215/ IS 14286	Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
IEC 61701	Salt Mist Corrosion Testing of (PV) Modules
IEC 61853- Part 1/ IS 16170: Part 1	Photovoltaic (PV) module performance testing and energy rating –: Irradiance and temperature performance measurements, and power rating
IEC 62716	Photovoltaic (PV) Modules - Ammonia (NH3) Corrosion Testing  (As per the site condition like dairies, toilets)
IEC 61730-1,2	Photovoltaic (PV) Module Safety Qualification- Part 1: Requirements for

	Construction, Part 2: Requirements for Testing
IEC 62804	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation. IEC TS 62804-1: Part 1: Crystalline silicon. (Mandatory for applications where the system voltage is > 600 VDC and advisory for installations where the system voltage is < 600 VDC)
IEC 62759-1	Photovoltaic (PV) modules - Transportation testing, Part 1: Transportation and shipping of module package units
<b>Secondary cells and batteries for solar photovoltaic application</b>	
IS 16270 : 2014	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test.
IS 15549 : 2005 and its amendments	Stationary valve regulated lead acid batteries - Specification
IEC 60896-2 ( 1995 )	Stationary lead acid batteries - General requirements and test methods
<b>Solar PV Inverters</b>	
IEC 62109-1, IEC 62109-2	Safety of power converters for use in photovoltaic power systems - Part 1: General requirements, and Safety of power converters for use in photovoltaic power systems. Part 2: Particular requirements for inverters. Safety compliance (Protection degree IP 65 for outdoor mounting, IP 54 for indoor mounting)
IEC/IS 61683 (as applicable)	Photovoltaic Systems - Power conditioners: Procedure for Measuring Efficiency (10%, 25%, 50%, 75% & 90-100% Loading Conditions)

<p>BS EN 50530 (As applicable)</p>	<p>Overall efficiency of grid-connected photovoltaic inverters: This European Standard provides a procedure for the measurement of the accuracy of the maximum power point tracking (MPPT) of inverters, which are used in grid-connected photovoltaic systems. In that case the inverter energizes a low voltage grid of stable AC voltage and constant frequency. Both the static and dynamic MPPT efficiency is considered.</p>
<p>IEC 62116/ UL 1741/ IEEE 1547 (As applicable)</p>	<p>Utility-interconnected Photovoltaic Inverters -Test Procedure of Islanding Prevention Measures</p>
<p>IEC 60255-27</p>	<p>Measuring relays and protection equipment – Part 27: Product safety requirements</p>
<p>IEC 60068-2 (1, 2, 14, 27, 30 &amp; 64)</p>	<p>Environmental Testing of PV System – Power Conditioners and Inverters a) IEC 60068-2-1: Environmental testing - Part 2-1: Tests - Test A: Cold b) IEC 60068-2-2: Environmental testing - Part 2-2: Tests - Test B: Dry heat c) IEC 60068-2-14: Environmental testing - Part 2-14: Tests - Test N: Change of temperature d) IEC 60068-2-27: Environmental testing - Part 2-27: Tests - Test and guidance: Shock e) IEC 60068-2-30: Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) f) IEC 60068-2-64: Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance</p>
<p>IEC 61000 – 2,3,5 (as applicable)</p>	<p>Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC) testing of PV Inverters</p>
<p><b>Fuses</b></p>	
<p>IS/IEC 60947 (Part 1, 2 &amp; 3), EN 50521</p>	<p>General safety requirements for connectors, switches, circuit breakers (AC/DC): a) Low-voltage Switchgear and Control-gear, Part 1: General rules b) Low-Voltage Switchgear and Control-gear, Part 2: Circuit Breakers c) Low-voltage switchgear and Control-gear, Part 3:</p>

	Switches, disconnectors, switch-disconnectors and fuse-combination units d) EN 50521: Connectors for photovoltaic systems – Safety requirements and tests
IEC 60269-6	Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems
<b>Surge Arrestors</b>	
IEC 62305-4	Lightning Protection Standard
IEC 60364-5-53/ IS 15086-5 (SPD)	Electrical installations of buildings - Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control
IEC 61643-11:2011	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods
<b>Cables</b>	
IEC 60227/IS 694, IEC 60502/IS 1554 (Part 1 & 2)/ IEC69947	General test and measuring method for PVC (Polyvinyl chloride) insulated cables (for working voltages up to and including 1100 V, and UV resistant for outdoor installation)
BS EN 50618	Electric cables for photovoltaic systems (BT(DE/NOT)258), mainly for DC Cables
<b>Earthing/Lightning</b>	
IEC 62561 Series (Chemical earthing)	IEC 62561-1 Lightning protection system components (LPSC) - Part 1: Requirements for connection components IEC 62561-2 Lightning protection system components (LPSC) - Part 2: Requirements for conductors and earth electrodes IEC 62561-7 Lightning protection system components (LPSC) - Part 7: Requirements for earthing enhancing compounds
<b>Junction Boxes</b>	
IEC 60529	Junction boxes and solar panel terminal boxes shall be of the thermo-plastic type with IP 65 protection for outdoor use, and IP 54 protection for indoor use
<b>Energy Meters</b>	
IS 16444 or as specified by the DISCOMs	A.C. Static direct connected watt-hour Smart Meter Class 1 and 2 – Specification (with Import & Export/Net energy measurements)
<b>Solar PV Roof Mounting Structure</b>	
IS 2062/IS 4759	Material for the structure mounting

**Note:** Equivalent standards may be used for different system components of the plants after due consultation with Engineer-in charge of work.

## Annexure-19

### Tentative list of Govt. Buildings with Plant Capacity

The tentative list of the installed Solar Power Plants, 05 Years CMC period expired as on March 2027 is mentioned hereby. This list is tentative and as per the requirement of JREDA, this NIB will cover the all installed Solar Power Plants under different NIBs whose 05 Years CMC Period completed and required the appointment of agencies for further Contract Maintenance.

#### Details of GCRT Solar Plant whose 5 Years CMC Period has Expired as on Dated 31-03-2027

S.No.	District	Sites/Buildings	Plant Capacity(kWp)	Commissioning Date
1	Chatra	Mandal Jail,Chatra	15	30.03.2017
2	Dumka	Primary Health Centre, Jama, Dumka	5	29.12.2016
3	Jamtara	Ashram School, Jamtara	5	27.05.2016
4	Latehar	Mandal jail,Latehar	15	19.06.2017
5	Palamu	Forest Rest House Maromar, Palamu	5	21.08.2016
6	Ranchi	Ranchi Commissionery , Ranchi	5	03.06.2016
7	Ranchi	Residencial Boys High School, Tamar, Ranchi	10	22.12.2016
9	Bokaro	Range Forest Office, Chas Bokaro	2	07.12.2017
10	Bokaro	Range Forest Office, Petarwar Bokaro	2	06.12.2017
11	Bokaro	Range Forest Office, Bermo Bokaro	2	07.12.2017
12	Bokaro	KGBV CHAS	20	16.11.2017
13	Chatra	KGBV HUNTERGANJ	20	12.12.2017
14	Chatra	Range Forest Office, Piri Chatra	2	09.12.2017
15	Chatra	Range Forest Office, Wildlife Range Chatra	2	19.01.2018
16	Chatra	Range Forest Office, Kunda, Chatra	2	08.12.2017
17	Chatra	Range Forest Office, Pratapur, Chatra	2	08.12.2017
18	Chatra	Range Forest Office, Rajpur, Chatra	2	05.12.2017
19	Chatra	Range Forest Office, Lawalong Chatra	2	06.12.2017
20	Chatra	Range Forest Office, Simariya Chatra	2	06.12.2017
21	Chatra	Residencial Primary School, Balumath.	10	06.04.2018
22	Deoghar	Range Forest Office, Soil Conservation Range Deoghar	2	11.12.2017
23	Deoghar	Range Forest Office, Soil Conservation Range Madhupur	2	11.12.2017
24	Deoghar	KGBV SARATH	20	22.01.2018
25	Deoghar	Residencial Middle School, Bamandiha.	10	25.09.2018
26	Dhanbad	Range Forest Office, Topchachi, Dhanbad	2	22.12.2017
27	Dhanbad	Range Forest Office, Tundi, Dhanbad	2	26.12.2017
28	Dhanbad	KGBV Jharia	20	08.12.2017
29	Dumka	Residencial 10+2 School, Bhahpur	10	11.12.2017
30	East Singhbhum	Range Forest Office, Chakulia	2	07.09.2018
31	East Singhbhum	Range Forest Office, Rakhamines	2	08.09.2018
32	East Singhbhum	Range Forest Office, Ghatshila	2	16.03.2018
33	East Singhbhum	Range Forest Office, Musabani	2	25.09.2018
34	East Singhbhum	Range Forest Office, Hatgamharia	2	19.03.2018
35	East Singhbhum	Range Forest Office, Dalma Wild Life	2	27.09.2018
36	Garhwa	Range Forest Offices, Bhandaria, Garhwa	2	03.12.2017
37	Garhwa	Range Forest Offices, Bhandaria, Garhwa	2	03.12.2017

38	Garhwa	Range Forest Offices, Ranka( East)	2	01.12.2017
39	Garhwa	Range Forest Offices, Ranka( West)	2	01.12.2017
40	Garhwa	Range Forest Office, Nagar Garhwa	2	01.02.2018
41	Garhwa	Range Forest Office, Bhawnathpur Garhwa	2	01.02.2018
42	Giridih	Range Forest Office, Bagodar	2	06.12.2017
43	Giridih	Range Forest Office, Gawa Giridih	2	12.12.2017
44	Giridih	Range Forest Office, Parasnath Giridih	2	15.12.2017
45	Giridih	Range Forest Office, Dumari Giridih	2	21.02.2018
46	Godda	Divisional Forest Office, Godda	2	18.12.2017
47	Gumla	Range Forest Office, Palkot Wild Sanctuary Gumla	2	19.01.2018
48	Hazaribagh	Range Forest Office, Daru	2	11.12.2017
49	Hazaribagh	K.G.B.V. BARHI	20	28.12.2017
50	Hazaribagh	K.G.B.V. CHARHI (CHURCHU)	20	11.01.2018
51	Jamtara	Range Forest Office, Kundhit Jamtara	2	07.02.2018
52	Jamtara	Range Forest Office, Nala Jamtara	2	09.02.2018
53	Jamtara	Range Forest Office, Narayanpur Jamtara	2	11.02.2018
54	Jamtara	KGBV Nala	20	10.12.2017
55	Koderma	Range Forest Offices, Domchanch	2	25.01.2018
56	Koderma	Range Forest Offices, Domchanch	2	25.01.2018
57	Koderma	Range Forest Offices, Domchanch	2	25.01.2018
58	Latehar	Range Forest Office, Manika Latehar	2	29.12.2017
59	Latehar	Range Forest Office, Richughuta Latehar	2	30.01.2018
60	Latehar	Range Forest Office, Chandwa Latehar	2	20.12.2017
61	Latehar	Range Forest Office, Balumath Latehar	2	29.12.2017
62	Pakur	Range Forest Office, Pakur	2	03.02.2018
63	Pakur	Range Forest Office, Hiranpur Pakur	2	03.02.2018
64	Pakur	Range Forest Office, Amarapara Pakur	2	26.01.2018
65	Pakur	KGBV AMRAPARA	20	03.09.2018
66	Pakur	KGBV HIRANPUR	20	06.09.2018
67	Palamu	Range Forest Office, Mahuatand, Palamu	2	11.12.2017
68	Palamu	Range Forest Office, Basargarh Palamu	2	11.12.2017
69	Palamu	Range Forest Office, Kundari	2	11.12.2017
70	Palamu	Range Forest Office, Manatu	2	29.12.2017
71	Ramgarh	Range Forest Office, Gola Ramgarh	2	07.12.2017
72	Ranchi	Residential High School, Kamre	10	11.12.2017
73	Ranchi	Residential Boys Middle School, Amanburu, Ranchi	10	14.12.2017
74	Ranchi	Range Forest Office, Mutta Crocodile Breeding Centre Ranchi	2	23.01.2018
75	Ranchi	Residential Boys High School, Baridih, Ranchi	10	19.12.2017
76	Saraikela Kharsawan	Range Forest Offices, Saraikela	2	11.12.2017
77	Saraikela Kharsawan	Range Forest Offices, Saraikela	2	11.12.2017
78	West Singhbhum	Range Forest Office, Chaibasa	2	11.04.2018
79	West Singhbhum	Range Forest Office, Songara, Chakradharpur	2	20.04.2018
80	West Singhbhum	Range Forest Office, Kera, Chakradharpur	2	26.09.2018
81	Dhanbad	Residential High School, Govindpur	10	09..04.2018
82	Garhwa	CHC Bhandaria	6	02.05.2018
83	Godda	Residential Girls Middle School, Boarigor.	10	03.05.2018

84	Godda	DC Office, Godda	60	25.07.2018
85	Gumla	District Jail Gumla	45	15.10.2018
86	Hazaribagh	Open Jail cum Rehabilitation Centre, Hazaribag	15	24.04.2018
87	Khunti	CHC Rania	6	02.06.2018
88	Koderma	GOVT KGBV KODERMA	20	31.03.2018
89	Koderma	District Jail Koderma	15	25.05.2018
90	Latehar	CHC Mahuatand	8	11.05.2018
91	Latehar	CHC Blumath	6	29.04.2018
92	Latehar	CHC Barwadih	10	07.05.2018
93	Latehar	KGBV BALUMATH	20	25.04.2018
94	Latehar	KGBV BARWADIH	20	27.04.2018
95	Latehar	KGBV CHANDWA	20	18.04.2018
96	Latehar	KGBV GARU	20	05.05.2018
97	Latehar	KGBV LATEHAR	20	08.05.2018
98	Latehar	KGBV MANIKA	20	02.05.2018
99	Palamu	CHC Panki	7	11.05.2018
100	Simdega	CHC Bolba	6	29.04.2018
101	West Singhbhum	CHC Tantnagar	7	01.05.2018
102	Dhanbad	EAST TUNDI PS	10	05.04.2019
103	Dhanbad	Nirsa CHC	10	20.04.2019
104	Hazaribagh	Sub-Divisional Office Hazaribag	25	18.04.2019
105	Khunti	KHUNTI P.S	10	22.03.2019
106	PAKUR	Krishi Vigyan Kendra, Maheshpur Farm Pakur	25	12.06.2019
107	PAKUR	Sub-Divisional Office Pakur	25	12.06.2019
108	Saraikela Kharsawan	Gamharia PS	10	27.03.2019
109	Pakur	SP Office Pakur	25	31.10.2020
110	Garhwa	CF Office, Garhwa	5	19.12.2020
111	Saraikela Kharsawan	DFO Office, Saraikela	5	18.10.2020
112	Saraikela Kharsawan	SP Office Saraikela Kharsawan	25	19.10.2020
113	East Singhbhum	Old Forest Rest House, Chakulia	5	18.10.2020
114	Dhanbad	Baliyapur Block office	10	25.10.2020
115	Ranchi	Sonahatu Block office	10	30.11.2020
116	Ranchi	Rahe Block office	10	30.11.2020
117	Saraikela Kharsawan	Government Polytechnic, Adityapur	50	28.10.2020
118	Dhanbad	Nirsa Block office	10	25.10.2020
119	West Singhbhum	Govt. Industrial Training Institute, Chaibasa	50	30.12.2020
120	East Singhbhum	Combined Van Bhawan Parisar, Jamshedpur	15	29.01.2021
121	Latehar	Netarhat Forest Rest House, Latehar	15	25.11.2020
122	Palamu	Combined Van Bhawan Parisar, Medininagar	15	15.12.2020
123	Simdega	Government Polytechnic, Simdega	50	26.12.2020
124	Dumka	Government Polytechnic, Dumka	50	28.10.2020
125	Gumla	Chainpur Block office	10	08.01.2021
126	Dhanbad	Government Polytechnic, Bhaga, Dhanbad	50	05.11.2020
127	Bokaro	Govt. Industrial Training Institute, Chas Bokaro	50	04.11.2020
128	Saraikela Kharsawan	Ichagarh Block office	10	23.12.2020

129	Saraikela Kharsawan	Nimdih Block office	10	05.12.2020
130	Saraikela Kharsawan	Chandil Block office	10	21.12.2020
131	Saraikela Kharsawan	Kuchai Block office	10	19.12.2020
132	Saraikela Kharsawan	Kharwsawa Block office	10	15.12.2020
133	Saraikela Kharsawan	Gamharia (Adityapur) Block office	10	21.12.2020
134	Saraikela Kharsawan	Kukdu Block office	10	05.12.2020
135	Saraikela Kharsawan	Rajnagar (Govindpur) Block office	10	20.12.2020
136	Saraikela Kharsawan	Ranege Forest Office, Sonua	3	23.08.2020
137	Saraikela Kharsawan	Range Forest Office, Goyalkera	3	15.08.2020
138	Saraikela Kharsawan	Range Forest Office Barkela	3	24.08.2020
139	Saraikela Kharsawan	Range Forest Office, Kharsawan	3	23.08.2020
140	Saraikela Kharsawan	Range Plantation Office, Chandil	3	17.08.2020
141	East Singhbhum	RFO Manoharpur	3	10.08.2020
142	East Singhbhum	RFO Koyana	3	13.08.2020
143	Gumla	Range Forest Office, Bishunpur Aadar	3	21.12.2020
144	Palamu	Rfo Betla National Park Residence	2	09.08.2020
145	Palamu	RFO Chhipadoohar	3	09.08.2020
146	Palamu	Staff Qtr-1	2	24.07.2020
147	Palamu	Staff Qtr-2	2	09.08.2020
148	Palamu	Staff Qtr-3	2	09.08.2020
149	Palamu	Range Forest Office, Kutku	3	08.08.2020
150	Palamu	Range Forest Office, Barwadih	3	08.08.2020
151	West Singhbhum	SP Office West Singhbhum	25	23.12.2020
152	West Singhbhum	Combined Van Bhawan Parisar, Chaibasa	15	23.12.2020
153	East Singhbhum	Baharagora Block office	10	23.12.2020
154	Hazaribagh	Combined Van Bhawan Parisar, Hazaribagh	15	31.12.2020
155	Hazaribagh	Transit House, Daru	5	31.12.2020
156	Bokaro	RCCF Office , Bokaro	5	18.12.2020
157	Bokaro	CF Office, Bokaro	5	18.12.2020
158	Bokaro	Forest Rest House, Chas	5	17.12.2020
159	Bokaro	Forest Rest House, Chandankyari	5	17.12.2020
160	Bokaro	Forest Rest House, Petarwar	5	17.12.2020
161	Bokaro	Forest Rest House, Gomia	5	18.12.2020
162	Sahibganj	Patna Block	10	19.11.2020
163	Sahibganj	SP Office Sahibganj	25	17.11.2020
164	Sahibganj	DFO Office Sahibganj	5	17.11.2020
165	Sahibganj	Forest Rest House, Sahibganj	5	17.11.2020
166	Ramgarh	Forest Rest House, Rajrappa	5	25.10.2020
167	Ramgarh	Forest Rest House, Ramgarh	5	22.01.2021
168	Ramgarh	Forest Rest House, Mandu	5	22.01.2021
169	Chatra	DFO Office North Chatra	5	23.04.2020

170	Chatra	DFO Residence North Chatra	5	14.05.2020
171	Chatra	Range office Hunterganj	3	27.05.2020
172	Chatra	Range Office Pratappur	3	23.05.2020
173	Chatra	Ranege Office Rajpur	3	25.04.2020
174	Chatra	Range Office Kunda	3	31.05.2020
175	Chatra	CF Office Chatra	5	28.04.2020
176	Chatra	DFO Office Chatra	5	28.04.2020
177	Chatra	Forest Rest Home, Chatra	5	26.04.2020
178	Chatra	Guest House, Simaria	5	21.05.2020
179	Chatra	Guest House, Itkhori	5	04.05.2020
180	Chatra	Range Forest Office, Tandwa	5	26.04.2020
181	Chatra	Range Forest Office, Chatra	5	16.05.2020
182	Chatra	Range Forest Office, Piri	5	26.04.2020
183	Chatra	Range Forest Office, Lawalong	5	02.05.2020
184	Chatra	Range Forest Office, Simaria	5	21.05.2020
185	Chatra	CF Residence Chatra	5	13.05.2020
186	Chatra	DFO Residence Chatra	5	28.04.2020
187	Chatra	ACF Chatra Residence	5	17.05.2020
188	Latehar	DFO Office Latehar	5	27.04.2020
189	Latehar	Forest rest House, Latehar Forest Division	3	30.05.2020
190	Latehar	Forest Rest House, Latehar Railway Station	3	27.04.2020
191	Latehar	DFO Latehar Residential Office	5	27.04.2020
192	Giridih	Reginal Office Building, Mohanpur	5	04.11.2020
193	Giridih	RCCF Camp Office cum Rest House, Mohanpur	5	10.11.2020
194	Giridih	Forest Rest House, Gawan	5	10.11.2020
195	Dumka	DFO Office Dumka	5	26.11.2020
196	Dumka	Government Women's Polytechnic, Dumka	50	21.01.2021
197	Pakur	DFO Office Pakur	5	04.11.2020
198	West Singhbhum	Nowamundi Block office, West Singhbhum	10	19.02.2021
199	Jamtara	Kundhit Block office	10	29.01.2021
200	Jamtara	SP Office Jamtara	20	27.01.2021
201	Jamtara	Forest Rest House, Jamtara	10	28.01.2021
202	Hazaribagh	Police training institute	50	06.06.2021
203	Ranchi	Police Control Room, Ranchi	50	09.06.2021
204	Ranchi	Traffic SP Office Ranchi	20	09.06.2021
205	Ranchi	Community Health Centre Angara	10	16.04.2021
206	Giridih	SP Office Giridih	25	16.09.2021
207	Chatra	Chatra college, Chatra	25	16.09.2021
208	Chatra	Vikas Bhawan, Chatra	20	15.09.2021
209	Dumka	Combined Van Bhawan Parishar, Dumka	20	10.08.2021
210	Dumka	Commissioner Office, Dumka	20	05.08.2021
211	Dumka	Observation Home, Dumka	10	12.08.2021
212	Dumka	Sikaripara Block office	10	06.08.2021
213	Dumka	Raneshwar Block office	10	11.08.2021
214	Deoghar	Observation Home, Deoghar	10	08.08.2021
215	West Singhbhum	Chaibasa Block office	10	23.06.2021
216	West Singhbhum	Observation Home Chaibasa Block	10	11.06.2021
217	Ranchi	Observation Home, Ranchi	10	25.05.2021

218	Ranchi	Community Health Centre Tamar	10	31.05.2021
219	Gumla	Observation Home, Gumla	10	31.05.2021
220	Chatra	Circuit House (Dak Banglow) Pratappur	10	04.06.2021
221	Chatra	Circuit House (Dak Banglow) Huntergunj	10	04.06.2021
222	Chatra	Circuit House (Dak Banglow) Itkhor	10	04.06.2021
223	West Singhbhum	Jagarnathpur Block office	10	18.08.2021
224	West Singhbhum	Manoharpur Block office	10	18.08.2021
225	West Singhbhum	Tonto Block office	10	18.08.2021
226	Dhanbad	Observation Home, Dhanbad	10	02.06.2021
227	Bokaro	Observation Home, Bokaro	10	22.04.2021
228	Hazaribagh	Observation Home, HAZARIBAGH	10	26.04.2021
229	Ramgarh	Gola Police Station	10	28.07.2021
230	Ramgarh	Primary Health Centre Chitarpur, Ramgarh	10	28.07.2021
231	West Singhbhum	Sub Division Hospital, Chakardharpur	40	13.07.2021
232	West Singhbhum	ANM Training School, Sadar Hospital, Chaibasa	40	10.07.2021
233	Palamu	Blood Bank Daltonganj	10	16.09.2021
234	Palamu	Treasury Office, Daltonganj	10	16.09.2021
235	Ranchi	Civil Court ,Ranchi	100	01.07.2021
236	Hazaribagh	DC Office Hazaribagh	100	25.06.2021
237	Hazaribagh	Jharkhand Police Acedamy (Koyal Block)	30	06.07.2021
238	Hazaribagh	Police Training Institute ,Padma	50	25.06.2021
239	Bokaro	Zila Parishad office, Bokaro	25	14.07.2021
240	Bokaro	Circuit house, Bokaro	25	14.07.2021
241	Ranchi	Krishi Bhawan, Kanke Road,Ranchi	50	18.08.2021
242	Ranchi	Sili Poytechnic , Ranchi	50	01.08.2021
243	Ranchi	Jharkhand University of Technology, Namkum	60	03.08.2021
244	Ranchi	Ayush Directorate, Namkum	40	03.08.2021
245	Ramgarh	Gola Polytechnic, Ramgarh	50	27.07.2021
246	Palamu	Child Observation Home, Palamu	10	19.08.2021
247	Palamu	Town Hall (Nagar Smriti Bhawan), Palamu	10	28.08.2021
248	Sahibganj	Kotalpokhar Police Station,Sahebganj	10	06.08.2021
249	Pakur	Mufassil Police Station Pakur	10	29.07.2021
250	Sahibganj	Community Health Centre Barharwa, Sahibganj	10	29.07.2021
251	Ranchi	C.O. Office, Argora, Ranchi	10	07.08.2021
252	Ranchi	C.O. Office, Namkum, Ranchi	10	06.08.2021
253	Ranchi	C.O. Office, Ormanjhi, Ranchi	10	06.08.2021
254	West Singhbhum	Chakradharpur Police Station.	10	18.07.2021
255	West Singhbhum	Karaikela Police Station	10	18.07.2021
256	West Singhbhum	Goilkera Police Station	10	18.07.2021
257	Ranchi	Traffic Police Station Lalpur	10	07.08.2021
258	Ranchi	Doranda Police Station	10	20.07.2021
259	Ramgarh	Rajrappa Police Station	10	21.08.2021
260	Ramgarh	Ramgarh Police Station	10	15.08.2021
261	Ranchi	Jharcraft Building,Ranchi	50	09.08.2021

262	Ranchi	Election Commission Office ,Ranchi	30	23.07.2021
263	Ranchi	SETTLEMENT OFFICE, RANCH	50	25.07.2021
264	Ranchi	Building Construction Dept,Combined Building ,Ranchi	30	23.07.2021
265	Ranchi	Vikash Bhawan ,Ranchi	30	24.07.2021
266	Ranchi	Govt. Women Teacher Training College Bariyatu Ranchi (Without Battery System)	30	27.11.2021
267	Ranchi	J.N College, Dhurwa, Ranchi (Without Battery System)	30	27.11.2021
268	Ranchi	Khunti College, Khunti (Without Battery System)	30	27.11.2021
269	Godda	Godda College, Godda (without Battery System)	50	31.07.2021
270	Koderma	C.H +2 High School, Koderma (without Battery System)	15	30.07.2021
271	Deoghar	Kalyan High School,Chulhi,Deoghar (without Battery System)	15	01.08.2021
272	Deoghar	High School,Kenduwa,Deoghar (without Battery System)	15	29.07.2021
273	Deoghar	U S Middle School, Baswaria,Deoghar (without Battery System)	10	31.07.2021
274	Ranchi	Muri Police Station	10	10.08.2021
275	Ranchi	Tatisilway Police Station	10	10.08.2021
276	Dumka	Eklavya Archery Training Center,Dumka	50	07.08.2021
277	Dumka	Dumka Engineering College,Dumka	110	05.08.2021
278	Dumka	Dumka Engineering College,Dumka (Administrative Building)	40	05.08.2021
279	Dumka	ITI Jarmundi, Dumka	50	08.08.2021
280	Bokaro	Muffasil Police Station, Chas, Bokaro	10	26.07.2021
281	Bokaro	Joint District Agriculture Office, Bokaro	10	26.07.2021
282	Ranchi	Kotwali Police Station	10	13.07.2021
283	West Singhbhum	Eye Hospital, Sadar Hospital Chaibasa	10	11.07.2021
284	West Singhbhum	Postmatam House, Sadar Hospital, Chaibasa	10	12.07.2021
285	Chatra	SDO Office ,Chatra	25	19.07.2021
286	Chatra	SDO Office , Simliya	25	19.07.2021
287	Hazaribagh	Keredari Police Station	10	16.08.2021
288	Hazaribagh	Barkagaon Police Station	10	13.08.2021
289	Hazaribagh	Churchu Police Station	10	07.08.2021
290	Hazaribagh	Daru Police Station	10	07.08.2021
291	Palamu	Civil Court, Palamu	30	18.08.2021
292	Palamu	Commissioner's Office, Medininagar, Palamu	30	18.08.2021
293	Palamu	Police Line, Medininagar, Palamu	40	18.08.2021
294	Ranchi	Pandra Police Station	10	31.07.2021
295	Ranchi	SS high School Khunti	10	28.07.2021
296	East Singhbhum	Anumandal Hospital Ghatsila, East Singhbhum	50	15.09.2021
297	Dhanbad	Old Building Primary Health Centre Tundi, Dhanbad	10	06.08.2021
298	Dhanbad	Community Health Centre Kenduadih, Dhanbad	10	04.08.2021
299	Hazaribagh	Circuit House,Hazaribagh	25	16.10.2021
300	Hazaribagh	Sheikh Bhikari Medical College Hospital, Hazaribagh.	80	16.10.2021

301	Hazaribagh	University College of Engineer and Technology ,Hazaribagh	70	20.10.2021
302	Hazaribagh	Govt. Teachers Training College, Hazaribagh	30	16.10.2021
303	Giridih	Giridih College, Giridih	50	10.10.2021
304	Giridih	R.K. Mahila College, Giridih	30	12.10.2021
305	Simdega	DC Office Block C (DRDA), Simdega	30	04.08.2021
306	Simdega	Police Line, Simdega( Additional)	20	02.08.2021
307	Simdega	Mandal Jail, Simdega	25	05.08.2021
308	Simdega	Police Line , Simdega	25	10.08.2021
309	Ranchi	Community Health Centre Angara	10	25.07.2021
310	Ranchi	Community Health Centre Getalsud	10	25.07.2021
311	Ranchi	Community Health Centre Jonha	10	25.07.2021
312	Simdega	ITDA Simdega	20	16.07.2021
313	Simdega	Simdega College Simdega, Block- A	20	14.07.2021
314	Simdega	Simdega College Simdega, Block-B	20	15.07.2021
315	Hazaribagh	Giddi Police Station	10	07.08.2021
316	Hazaribagh	Ichak Police Station	10	07.08.2021
317	Hazaribagh	Bishnugarh Police Station	10	07.08.2021
318	Godda	Mahila Colloge, Godda ( without Battery system)	30	14.08.2021
319	Godda	Inter Level High School ,Godda (without Battery System)	20	14.08.2021
320	Godda	Zila parishad Building, Godda (With Battery)	25	14.08.2021
321	Deoghar	SNCU Ward, Sadar Hospital, Deoghar ( with Battery)	30	25.08.2021
322	Ranchi	Sikidiri Police Station	10	17.07.2021
323	Ranchi	Community Health Centre Ormanjhi	10	16.07.2021
324	Dhanbad	Police Line,Dhanbad	50	05.08.2021
325	Dhanbad	Circuit House ,Dhanbad	30	03.08.2021
326	Ranchi	Bariatu Police Station	10	14.07.2021
327	Ranchi	Govt. Teacher's Training College, Ranchi	30	27.08.2021
328	Ranchi	Doranda College, Ranchi	30	27.08.2021
329	Ranchi	UTPAD BHAWAN, Kanke Road,Ranchi	125	10.08.2021
330	Ranchi	Dr Shyama Prasad Mukherjee University	125	16.08.2021
331	Ranchi	Mahila Police Station,Ranchi	10	18.07.2021
332	Ranchi	SC/ST Police Station,Ranchi	10	17.07.2021
333	Chatra	District Welfare Office ,Chatra	10	25.07.2021
334	Chatra	District Agriculture Office ,Cahtra	10	24.07.2021
335	Hazaribagh	Barhi Police Station	10	10.08.2021
336	Hazaribagh	Chauparan Police Station	10	10.08.2021
337	Ramgarh	Ramgarh College ,Ramgarh (without Battery)	60	13.08.2021
338	Ramgarh	PTPolice Station college ,Patratu Ramgarh (without Battery)	20	11.08.2021
339	Ramgarh	Upgraded +2 High School, Patratu Ramgarh (without Battery)	20	11.08.2021
340	Dumka	Police Control Room, Dumka	10	18.07.2021
341	Dumka	Refferal Animal Hospital Dumka	10	20.07.2021
342	Ranchi	State Dispensory Doranda	10	29.07.2021
343	Ranchi	Govt Girls High School, Bariyatu, Ranchi	10	20.07.2021
344	Ranchi	Urban Primary Health Centre, Doranda, Ranchi	10	21.07.2021
345	West Singhbhum	Commisiner Office, Chaibasa	25	12.08.2021

346	West Singhbhum	Bandgaon Police Station	10	11.09.2021
347	West Singhbhum	Tebo Police Station	10	11.09.2021
348	Ramgarh	Community Health Centre Patratu, Ramgarh	10	25.08.2021
349	Ramgarh	Old DDC Office, Ramgarh	10	24.08.2021
350	Ranchi	Police Station. BIT Mesra	10	24.07.2021
351	Ranchi	Police Station. Gonda	10	24.07.2021
352	Ranchi	Police Station. Sadar	10	30.07.2021
353	Bokaro	K.B.College ,Bermo	30	14.07.2021
354	Bokaro	B.S.City College , Bokaro	60	14.07.2021
355	Dhanbad	Zila School ,Dhanbad	10	14.07.2021
356	Simdega	Observation Home Simdega	10	12.08.2021
357	Simdega	District Treasury Office ,Simdega	10	18.08.2021
358	Simdega	District Transport Office,Simdega	10	13.08.2021
359	Simdega	District Agriculture Office, Simdega	10	19.08.2021
360	Simdega	Veer Budh Shelter Home,Simdega	10	17.08.2021
361	Simdega	Mahila Barrack-1, Simdega	25	20.09.21
362	Simdega	S.S+2 Boys High School,Simdega	20	20.09.2021
363	Simdega	Balika High School Hostel,Simdega	20	20.09.2021
364	Simdega	SP Office (Block -B),Simdega	30	20.09.2021
365	Simdega	Zila Jansampark Karyalaya, Simdega	20	20.09.2021
366	Ranchi	Community Health Centre Ratu	10	11.09.2021
367	Ranchi	Community Health Centre Burmu	10	08.09.2021
368	Sahibganj	Sahebganj College ,Sahebganj	25	03.08.2021
369	Sahibganj	Sandhya College ,Sahebganj	25	03.08.2021
370	Sahibganj	Civil Court , Sahebganj	50	13.08.2021
371	Hazaribagh	Padma OP	10	24.07.2021
372	Hazaribagh	Pelawal OP	10	25.07.2021
373	Chatra	Vikash Bhawan ,Chatra	20	26.07.2021
374	Chatra	District Jail,Chatra	60	03.08.2021
375	Chatra	District Transport Office,Chatra	10	26.07.2021
376	Chatra	Police Line ,Chatra	50	26.07.2021
377	Chatra	Chatra College ,Chatra	40	26.07.2021
378	Chatra	Zila Parishad ,Chatra	10	26.07.2021
379	Sahibganj	DRDA, Sahibganj	50	01.09.2021
380	Sahibganj	SDO Office, Sahibganj	50	01.09.2021
381	Sahibganj	Circuit House, Sahibganj	25	01.09.2021
382	Dumka	DRDA, Dumka	50	12.09.2021
383	Pakur	Govt. Polytechic College, Pakur	50	01.09.2021
384	Ranchi	Governor House (Rajbhawan), Ranchi	70	27.07.2021
385	Ranchi	NDC Guest House, Hatia, Ranchi	50	28.08.2021
386	West Singhbhum	Burn unit, Sadar Hospital Chaibasa	10	12.07.2021
387	Hazaribagh	Jharkhand Police Academy mess no 3, Hazaribagh	50	30.06.2021
388	Hazaribagh	Jharkhand Police Academy, Konar Block, Hazaribagh	50	30.06.2021
389	Hazaribagh	APHC Bundu, Keredari Hazaribagh	10	18.03.2022
390	Hazaribagh	APHC Gopda, Keredari, Hazaribagh	10	18.03.2022
391	Hazaribagh	Community Health Centre (Covid Ward), Keredari, Hazaribagh	10	18.03.2022

392	Dhanbad	Sadar Hospital, Dhanbad	30	04.08.2021
393	Hazaribagh	Sub-Jail, Barhi, Hazaribagh	50	01.08.2021
394	Hazaribagh	Homeguard Office, Sindoor, Hazaribagh	40	07.08.2021
395	Dhanbad	APHC Gomoh, Dhanbad	5	10.08.2021
396	Dhanbad	Primary Health Centre Katras, Dhanbad	5	10.08.2021
397	Dhanbad	Health & Wellness Center, Kharkabad, Dhanbad	10	11.08.2021
398	Dhanbad	Community Health Centre Jharia, Dhanbad	10	10.08.2021
399	Dhanbad	Health & Wellness Center, Kharkabad, Dhanbad	10	28.09.2021
400	Latehar	Gandhi Inter College, Latehar	10	28.09.2021
401	Latehar	DTO Office, Latehar	10	28.09.2021
402	Bokaro	Bokaro Office Chas, Bokaro	10	15.09.2021
403	Bokaro	Block Office Chandankiyari, Bokaro	10	15.09.2021
404	Ranchi	Mecluskeganj Police Station	10	13.09.2021
405	Ranchi	Civil Court (40 Court Building) Ranchi	100	08.11.2021
406	Ranchi	Civil Court (CBI Court Building) Ranchi	100	08.11.2021
407	Khunti	DC Office, Khunti	100	31.10.2021
408	Ranchi	RINPASS, Female Ward, Kanke, Ranchi	50	08.11.2021
409	West Singhbhum	Sadar Hospital Chaibasa, Emergency Building	50	08.11.2021
410	East Singhbhum	Commercial Tax Office Building, Jamshedpur	50	08.11.2021
411	Khunti	Sadar Hospital, Khunti	30	08.11.2021
412	Khunti	CHC Govindpur, Khunti	10	08.11.2021
413	Khunti	CHC Murhu, Khunti	10	05.11.2021
414	Bokaro	HWC Dumari, Bokaro	10	18.10.2021
415	Bokaro	CHC Gomia, Bokaro	10	18.10.2021
416	Ranchi	State Food Testing Laboratory & State Durgs Testing Laboratory Namkum, Ranchi	100	10-12-21
417	Ranchi	Jharkhand University of Technology old Building , Ranchi	30	27-01-22
418	Palamu	Sub Divisional Hospital Chhatarpur, Palamu	50	29.12.2021
419	Palamu	Sub Divisional Hospital Husainabad Palamu	50	04.01.2022
420	Palamu	ITI Husainabad, Palamu	30	25-12-21
421	Palamu	ITI Chhatarpur, Palamu	30	28-12-21
422	Garhwa	ITI Garhwa	30	30-12-21
423	Garhwa	Garhwa Polytechnic	30	31-12-21
424	Palamu	Bandobast Office Medninagar, Palamu	40	28-12-21
425	Palamu	P.S Chhatarpur, Palamu	10	27.12.2021
426	Palamu	P.S Mahila Thana, Chhatarpur, Palamu	10	27.12.2021
427	Palamu	P.S Mahila thana Hussainabad, Palamu	10	15.12.2021
428	Palamu	P.s Padwa, Palamu	10	30.11.2021
429	Palamu	P.S Lesiliganj, Palamu	10	26.12.2021
430	Palamu	CHC Chainpur, Palamu	10	17.12.2021
431	Palamu	CHC Lesliganj, Palamu	10	13.12.2021
432	Garhwa	CHC Meral, Garhwa	10	30.11.2021
433	Palamu	PHC Jamuney, Medninagar, Palamu	10	07.12.2021
434	Palamu	PHC Haidernagar, Palamu	10	10.12.2021
435	Palamu	PHC Beghanpura, Hussainabad, Palamu	10	07.12.2021
436	Hazaribagh	APHC, Padma, Hazaribagh	10	14.12.2021
437	Hazaribagh	PHC, Chauparan, Hazaribagh	10	14.12.2021

438	Hazaribagh	Rajkiya Anusuchit Janjati Awasiya Vidhyalaya, Mandu, Ramgarh	10	14.12.2021
439	Ranchi	FRU, Silli, Ranchi	10	01.02.2022
440	Ranchi	APHC, Patrathu, Silli, Ranchi	10	02.02.2022
441	Palamu	ANM Training School Medningar, Palamu	10	14.02.2022
442	Palamu	Civil Surgeon office, Palamu	10	15.02.2022
443	West Singhbhum	CHC Tonto, West Singhbhum	10	08.12.2021
444	West Singhbhum	CHC Hatgamharia, West Singhbhum	10	08.12.2021
445	West Singhbhum	One Stop Sakhi Point, Sadar Hospital, Chaibasa	10	10.12.2021
446	Dhanbad	Civil Court Dhanbad	100	01.03.2022
447	East Singhbhum	SDO Office Ghatshila	50	20.11.2021
448	East Singhbhum	PHC Chakulia, East Singhbhum	10	22.11.2021
449	East Singhbhum	PHC Chakulia, East Singhbhum (Additional)	10	17.11.2021
450	East Singhbhum	APHC Sindugori, Chakulia, East Singhbhum	10	17.11.2021
451	Latehar	APHC, Harhanj, Balumath, Latehar	10	20.03.2022
452	Latehar	APHC, Nawagarh, Latehar	10	20.03.2022
453	Latehar	APHC, Murup, Latehar	10	20.03.2022
454	Hazaribagh	APHC Ango, Churchu, Hazaribagh	10	10.11.2021
455	Hazaribagh	APHC Bankharo, Bishnugarh, Hazaribagh	10	10.11.2021
456	Ranchi	APHC, Kucchu, Ranchi	10	08.11.2021
457	Ranchi	PHC, Ormanjhi, Ranchi	10	08.11.2021
458	Gumla	PHC Bharno, Gumla	10	08.11.2021
459	Latehar	PHC, Rudh, Chandwa, Latehar	10	20.03.2022
460	Latehar	PHC, Bari, Chandwa, Latehar	10	20.03.2022
461	Latehar	PHC Chakla, Chandwa, Latehar	10	20.03.2022
462	Simdega	CHC, Kolebera, Simdega	10	13.11.2021
463	Simdega	PHC, Lachragarh, Kolebera, Simdega	10	13.11.2021
464	Simdega	PHC Referral, Thetaitangar, Simdega	10	13.11.2021
465	Saraikele Kharsawan	PHC Chliyama, Rajnagar, Saraikele-kharsawan	10	12.11.2021
466	Saraikele Kharsawan	PHC Kutung, Rajnagar, Saraikele Kharsawan	10	15.11.2021
467	Saraikele Kharsawan	PHC Govindpur, Rajnagar, Saraikele Kharsawan	10	14.11.2021
468	Saraikele Kharsawan	APHC Sini, Saraikele, Saraikele Kharsawan	10	16.11.2021
469	Saraikele Kharsawan	PHC Mangudih, Saraikele-Kharsawan	10	27.12.2021
470	Saraikele Kharsawan	CHC Kharsawan, Sarikela Kharsawan	10	17.11.2021
471	Dumka	S.P College, Dumka (Main Building)	100	14-02-22
472	Dumka	S.P College, Dumka (IGNOU Building)	100	16-02-22
473	Dumka	S.P College (B.Ed Building)	10	26-02-22
474	Jamtara	ANM Training Center	50	23-02-22
475	Jamtara	HSC Kalajharia, Jamtara	10	21-02-22
476	Jamtara	HSC Asanchua, Jamtara	10	02-02-22
477	Jamtara	HSC Bodhma, Jamtara	10	16-02-22

478	Jamtara	HSC, Siwalbadi, Jamtara	10	17-01-22
479	Jamtara	HSC Kushbedia, Jamtara	10	21-02-22
480	Jamtara	HSC Jiajori, Jamtara	10	29-01-22
481	Jamtara	HSC Soward, Jamtara	10	13-02-22
482	Jamtara	HSC Mohra, Jamtara	10	11-02-22
483	Jamtara	HSC Chadardip, Jamtara	10	27-01-22
484	Jamtara	HSC Nijkajira, Jamtara	10	03-02-22
485	Jamtara	PHC Mahijam, Jamtara	10	17-02-22
486	Jamtara	PHC Ladhna, Jamtara	10	06-02-22
487	Jamtara	HSC Bandajuria, Jamtara	10	18-02-22
488	Jamtara	HSC Chakri, Jamtara	10	01-02-22
489	Jamtara	HSC Dewalbadi, Jamtara	10	19-02-22
490	Jamtara	HSC Karmatanr, Jamtara	10	03-02-22
491	Jamtara	HSC Mejhia, Jamtara	10	15-02-22
492	Jamtara	HSC Murgabani, Jamtara	10	05-02-22
493	Jamtara	HSC Phopnad, Jamtara	10	17-02-22
494	Jamtara	HSC, Rampur, Jamtara	10	04-02-22
495	Jamtara	HSC Santhalpipla, Jamtara	10	28-01-22
496	Jamtara	HSC Uparbhitra, Jamtara	10	22-02-22
497	Jamtara	PHC Binpathar, Jamtara	10	12-02-22
498	Dumka	P.S Masliya Dumka	10	07-02-22
499	Dumka	ITI Saraiyahat, Dumka	50	23-03-22
500	Gumla	Aklabya Model residential School Basia, Gumla	20	27.11.2021
501	Gumla	CO Office Kamdara, Gumla	10	28.11.2021
502	Gumla	CO Office Basia, Gumla	10	26.11.2021
503	West Singhbhum	APHC, Karaikele, Chaibasa	10	22.12.2021
504	West Singhbhum	Blood Bank Sadar Hospital Chaibasa	10	22.12.2021
505	West Singhbhum	Postmartom House, Chakardharpur	10	22.12.2021
506	East Singhbhum	PHC Dumaria, Dumaria, East Singhbhum	10	01.03.2022
507	East Singhbhum	PHC Chakulia, East Singhbhum	10	28.02.2022
508	Ramgarh	CHC Referral Hospital, Mandu, Ramgarh	10	24.01.2022
509	Hazaribagh	APHC, Charhi, Hazaribagh	10	22.01.2022
510	Ramgarh	ST/SC P.s Ramgarh	10	24.01.2022
511	Bokaro	PHC Telo, Bokaro	10	09.01.2022
512	Ramgarh	Mahila P.S. Ramgarh	10	09.01.2022
513	Ramgarh	CHC, Mandu, Ramgarh	10	09.01.2022
514	Ranchi	APHC Thakurgaon, Burmu, Ranchi	10	08.03.2022
515	Ranchi	APHC Lapung, Ranchi	10	04.03.2022
516	Ranchi	APHC Kokria Lapung, Ranchi	10	02.03.2022
517	Hazaribagh	PHC Churchu, Hazaribagh	10	12.03.2022
518	Hazaribagh	PHC, Ichak, Hazaribagh	10	18.01.2022
519	Hazaribagh	PHC, Bishungarh, Hazaribagh	10	18.01.2022
520	Lohardaga	KGBV Bhandra, Lohardaga	25	02.12.2021
521	Hazaribagh	CHC Chouparan, Hazaribagh	25	29.11.2021
522	Koderma	PHC Jainagar, Koderma	10	05.12.2021
523	Koderma	APHC Sainik School Teliaya, Jainagar, Koderma	10	01.12.2021

524	Koderma	APHC Phulwari, Markacho, Koderma	10	03.12.2021
525	Koderma	APHC Jhumri Teliya, Koderma	10	02.12.2021
526	Koderma	Referral Hospital Domchanch, Koderma	10	07.12.2021
527	Ramgarh	Health Sub Center, Badgaon Mandu, Ramgarh	10	23.01.2022
528	Hazaribagh	Pratham Warhiye Animal Hospital, Badgaon, Mandu, Hazaribagh	10	22.01.2022
529	Hazaribagh	Police Station Charhi, Hazaribagh	10	22.01.2022
530	Ranchi	PHC Sonahatu, Ranchi	10	16.12.2021
531	Ranchi	APHC, Rahe Sonahatu, Ranchi	10	16.12.2021
532	Ranchi	APHC, Pandadih Sonahatu, Ranchi	10	16.12.2021
533	Simdega	ST-SC Boys Residential Middle School Hatinghore, Bano, Simdega	25	24.11.2021
534	Simdega	Adiwasi Balika Chatrawas, Simdega	25	24.11.2021
535	Saraikela Kharsawan	CHC Nimdih, Saraikela-kharsawan	10	17.11.2021
536	Saraikela Kharsawan	APHC Hantor, Patasidh, Nimdih, Saraikela-kharsawan	10	17.11.2021
537	Godda	Civil Surgeon Office, Godda	20	17.11.2021
538	Godda	Jharkhand Balika Awasiya Vidhyalaya, Basant Rai Godda	30	17.11.2021
539	Godda	DIS Fisheries Office, Godda	10	17.11.2021
540	Godda	PHC Rupuchak, Godda	10	08.12.2021
541	Godda	APHC Basantrai, Pathargama, Godda	10	08.12.2021
542	Godda	District Industry Center, Godda	10	17.11.2021
543	Godda	Nagar Parishad Office, Godda	10	17.11.2021
544	Bokaro	PHC, Pindajori, Chas, Bokaro	10	20-02-22
545	Bokaro	Sub Divisional Hospial, Chas	10	25-02-22
546	Bokaro	Block office Chandankiyari	10	20-02-22
547	Gumla	Civil Court , Gumla	100	16.12.2021
548	Gumla	SDO Sadar , Gumla	50	08.12.2021
549	Ranchi	ITI Angara, Ranchi	50	07.12.2021
550	Ranchi	CO Office, Ratu, Ranchi	10	17.12.2021
551	Ranchi	CO Office, Mandar, Ranchi	10	22.12.2021
552	Ranchi	CO Office, Chanho, Ranchi	10	27.12.2021
553	Ranchi	CO Office, Khalari, Ranchi	10	24.12.2021
554	Ranchi	CO Office, Burmu, Ranchi	10	28.11.2021
555	Ranchi	CO Office, Itki, Ranchi	10	23.12.2021
556	Gumla	CHC Basia, Gumla	10	15.12.2021
557	Gumla	CHC Ghaghra, Gumla	10	05.12.2021
558	Gumla	CHC Bishunpur, Gumla	10	06.12.2021
559	Gumla	CHC Raidih, Gumla	10	06.12.2021
560	Gumla	CHC Bharno, Gumla	10	23.12.2021
561	Gumla	CHC Sisai, Gumla	10	24.12.2021
562	Gumla	CHC Gumla Sadar	10	23.12.2021
563	Gumla	APHC Kotam, Gumla	10	05.12.2021
564	Gumla	PS Kamdara, Gumla	10	19.12.2021
565	Gumla	PS Basia, Gumla	10	19.12.2021
566	Gumla	PS Bharno, Gumla	10	24.12.2021
567	Gumla	PS Sisai, Gumla	10	24.12.2021
568	Bokaro	PHC Saram, Gomia, Bokaro	10	19.10.2021
569	Bokaro	CHC Petarwar, Bokaro	10	19.10.2021
570	Bokaro	HWC Penk, Nawadih, Bokaro	10	20.10.2021

571	Bokaro	PHC Khairachatar, Kasmar, Bokaro	10	20.10.2021
572	Bokaro	HSC, Tupkadih, Jaridih, Bokaro	10	20.10.2021
573	West Singhbhum	KGBV Goeilker, West Singhbhum	30	28-01-22
574	West Singhbhum	KGBV Manoharpur, West Singhbhum	30	28-01-22
575	West Singhbhum	APHC Jhinkpani, West Singhbhum	10	07-02-22
576	West Singhbhum	APHC Jagannathpur, West Singhbhum	10	07-02-22
577	West Singhbhum	PHC Hathia CKP, West Singhbhum	10	06-02-22
578	West Singhbhum	PHC Manjhgaon, West Singhbhum	10	06-02-22
579	Lohardaga	KGBV, Kudu, Lohardaga	20	29.10.2021
580	Lohardaga	KGBV, Kisko, Lohardaga	20	30.10.2021
581	Lohardaga	APHC Salgi, Kuru, Lohardaga	10	29.10.2021
582	Lohardaga	APHC Chiri, Kuru, Lohardaga	10	29.10.2021
583	Chatra	PHC Mayurhand, Chatra	10	29.10.2021
584	Chatra	APHC Jabra, Simaria, Chatra	10	30.10.2021
585	Hazaribagh	PHC Basariya, Chauparan, Hazaribagh	10	23.01.2022
586	Hazaribagh	PHC Chalkusa, Hazaribagh	10	22.01.2022
587	Hazaribagh	CHC Katkamsandi, Hazaribagh	10	22.01.2022
588	East Singhbhum	APHC Kadaduba, Ghatshila, East Singhbhum	10	25.03.2022
589	East Singhbhum	APHC Jadugora, Musabani, East Singhbhum	10	25.03.2022
590	East Singhbhum	APHC Galudih, Ghatshila, East Singhbhum	10	05.12.2021
591	East Singhbhum	P.S Galudih, Ghatshila, East Singhbhum	10	05.12.2021
592	Saraikela Kharsawan	APHC Chaliama, Chandil Saraikela-Kharsawan	10	02.03.2022
593	Saraikela Kharsawan	APHC Hudu, Gamharia, Saraikela-Kharsawan	10	05.03.2022
594	Ramgarh	P.S Tupudana, Ranchi	10	24-02-22
595	Ranchi	PHC Namkum, Ranchi	10	15.11.2021
596	Ranchi	PHC, Ratu, Ranchi	10	15.11.2021
597	Hazaribagh	APHC, daru, Hazaribagh	10	07.02.2022
598	Ramgarh	PHC, Patraru, Ramgarh	10	06.02.2022
599	Ramgarh	APHC, Chaingadda, Patraru, Ramgarh	10	06.02.2022
600	Gumla	CHC Bharno COVID Center, Gumla	10	08.11.2021
601	Ranchi	PHC, Kanke, Ranchi, Ranchi	10	08.11.2021
602	Ranchi	APHC, Pithoria, Kanke, Ranchi	10	08.11.2021
603	Ranchi	PHC, Burmu, Ranchi	10	25.01.2022
604	Ranchi	APHC, Maklusingganj, Burmu, Ranchi	10	25.01.2022
605	Ranchi	PHC, Nagri, Ranchi	10	12.02.2022
606	Saraikela Kharsawan	PHC Ichagarh Saraikela-Kharsawan	10	04.03.2022
607	Saraikela Kharsawan	APHC Kukru, ichagarh, Saraikela-Kharsawan	10	04.03.2022
608	Palamu	PHC, Hussainabad, Palamu	10	04.12.2021
609	Palamu	APHC, Haidarnagar, Hussainabad, Palamu	10	04.12.2021
610	Hazaribagh	Civil Court Hazaribagh Block A	100	26.10.2021

611	Hazaribagh	Civil Court Hazaribagh Block B	100	26.10.2021
612	Bokaro	PhC Karma (Purnadih), Kasmar, Bokaro	10	21.10.2021
613	Bokaro	CHC Bermo, Bokaro	10	19.10.2021
614	Bokaro	SDH Bermo, Bokaro	10	21.10.2021
615	Bokaro	UPHC Dhori Bermo, Bokaro	10	20.10.2021
616	Bokaro	PHC Ranchi Dhaura, Bermo, Bokaro	10	18.10.2021
617	Bokaro	CHC Govindpur, Phae-II, Bermo, Bokaro	10	20.10.2021
618	Bokaro	PHC Barigram, Gandhinagar, Bermo, Bokaro	10	21.10.2021
619	Bokaro	HWC Karo, Bermo, Bokaro	10	26.10.2021
620	Bokaro	Add PHC Ratari Bermo, Bokaro	10	20.10.2021
621	Bokaro	HWC Dania, Gomia, Bokaro	10	20.10.2021
622	Bokaro	HSC Kander, Gomia, Bokaro	10	26.10.2021
623	Bokaro	PHC / HSC Paturia, Jaridih, Bokaro	10	21.10.2021
624	Bokaro	Add PHC Araju, Jaridih, Bokaro	10	21.10.2021
625	Bokaro	CHC Jaridih, Bokaro	10	20.10.2021
626	Bokaro	FRU Jainamore, Jaridih, Bokaro	10	20.10.2021
627	Bokaro	RINPAS, Ranchi	50	20.12.2021
628	Ranchi	STF Jaguar, Ranchi	100	07.11.2021
629	Ranchi	Judicial Academy, Ranchi	100	08.11.2021
630	Deoghar	JHARKRAFT Silkgram Deoghar	100	13.12.2021
631	Ranchi	Rajaswa Parishad Office	30	09.11.2021
632	Bokaro	CHC Nawadih, Bokaro	50	07.11.2021
633	Dhanbad	CHC Govindpur, Dhanbad	20	06.11.2021
634	Dhanbad	PHC Beragaria-2 Nirsa Dhanbad	20	06.11.2021
635	Dhanbad	PHC Chirunda, Nirsa, Dhanbad	20	06.11.2021
636	Dhanbad	CHC Sadar, Dhanbad	10	06.11.2021
637	Gumla	Kasturba Gandhi Balika Vidyalaya Ghaghra Gumla	50	22.11.2021
638	Sahibganj	SDO, Rajmahal, Sahibganj	50	27.11.2021
639	Sahibganj	Krishi Vigyan Kendra, Sahibganj	30	27.11.2021
640	Sahibganj	Town Police Station, Sahibganj	10	29.11.2021
641	Sahibganj	Muffasil Police Station, Sahibganj	10	29.11.2021
642	Sahibganj	Borio Police Station, sahibganj	10	30.11.2021
643	Sahibganj	Mirzachowki Police Station Sahibganj	10	29.11.2021
644	Sahibganj	PHC Banjhi, Sahibganj	10	30.11.2021
645	Sahibganj	PHC Mirzachowk, Sahibganj	10	29.11.2021
646	Sahibganj	Health Sub Center Paharpur, Sahibganj	10	30.11.2021
647	Chatra	Nagarpalika Chatra	25	02.11.2021
648	Chatra	Aashram Residential School, Simaliya Chatra	25	08.11.2021
649	Chatra	Jharkhand Balika Awasiya Vidhyalaya, Mayurhand, Chatra	30	25.10.2021
650	Chatra	Election Office, Chatra	50	02.11.2021
651	Chatra	PHC Itkhori, Chatra	20	26.10.2021
652	Chatra	PHC Hunterganj, Chatra	20	06.11.2021
653	Chatra	KVK ,Chatra	10	06.11.2021
654	Chatra	PHC Pathargada, Chatra	10	08.11.2021
655	Chatra	PHC Simeria, Chatra	10	08.11.2021
656	Chatra	PHC Tandwa, Chatra	10	07.11.2021
657	Chatra	Addl.PHC Jori, Hunterganj, Chatra	10	06.11.2021
658	Chatra	Addl.PHC Kanhachatti, Chatra Sadar, Chatra	10	08.11.2021
659	Ranchi	Animal Husbandry, Ranchi	100	25.12.2021

660	Gumla	KGBV, Bharno, Gumla	30	08.12.2021
661	Ranchi	Institute of Forest Productivity, Lalgutuwa, Ranchi	50	25.12.2021
662	Hazaribagh	PHC Barkattha , Hazaribagh	10	17.11.2021
663	Hazaribagh	PHC, Barkagaon, Hazaribagh	10	17.11.2021
664	Hazaribagh	APHC, Harli, Barkagaon, Hazaribagh	10	17.11.2021
665	Hazaribagh	APHC, Badam, Barkagaon, Hazaribagh	10	17.11.2021
666	Hazaribagh	APHC, Chamgarha, Barkagaon, Hazaribagh	10	17.11.2021
667	Hazaribagh	PHC, Keradari , Barkagaon, Hazaribagh	10	17.11.2021
668	West Singhbhum	Civil Court, Chaibasa	100	05.11.2021
669	Gumla	SDO Office Basia, Gumla	50	05.11.2021
670	Ranchi	CHC Angara, Ranchi	50	05.11.2021
671	Hazaribagh	Jharkhand Police Academy, Hazaribagh	30	05.11.2021
672	Gumla	Refferel Hospital, Basia, Gumla	20	08.11.2021
673	Hazaribagh	Administrative Building, JAP-7, Padma Hazaribagh	20	23.03.2022
674	Hazaribagh	Police Barrack, JAP-7, Padma, Hazaribagh	20	23.03.2022
675	Bokaro	Labour Supeintendent Building, Labour Department, Bokaro	10	20.02.2022
676	Bokaro	Kasmar Block Office, Bokaro	10	22.02.2022
677	West Singhbhum	Ware House, Sadar Hospital, Chaibasa	10	22.03.2022
678	West Singhbhum	Kuposan Vibhag, Sadar Hospital, Chaibasa	10	22.03.2022
679	Gumla	APHC Tudurma, Raidih, Gumla	10	21.02.2023
680	Gumla	APHC Kondra, Raidih, Gumla	10	21.02.2023
681	Saraikela Kharsawan	APHC Adityapur, Saraikela- Kharsawan	10	03.03.2022
682	Saraikela Kharsawan	Kuposan Upchar Kendra- Cum- Covid Care Centre MTC Badachiru, Chaibasa	10	04.03.2022
683	Hazaribagh	Police Station Katkamdag, Hazaribagh	10	28-02-22
684	Hazaribagh	Police Station Katkamsandi, Hazaribagh	10	28-02-22
685	Hazaribagh	APHC, Sultana, Hazaribagh	10	01-03-22

Note: - Name of the Site/Buildings may changes as per requirement against Comprehensive Maintenance Contract and Operation for the Site Buildings already installed by JREDA

