



# Chhattisgarh State Renewable Energy Development Agency (CREDA)

(Dept. of Energy, Govt. of Chhattisgarh)

Near Energy Education Park, Village Fundhar  
VIP (Air Port Road) Raipur 492015 (C.G.)  
Phone (No.) : +91-8839285325

*E-mail: credatendercell@gmail.com, Website: creda.co.in*

EOI No. 163610/CREDA/Battery Swapping /2024-25

Dated: 30.12.2024

**CREDA invites Expression of interest for Design, Installation, Operation and Maintenance of Solar Powered Battery Swapping Station for Electric Vehicles in RESCO Model near Energy Education Park – Bilaspur, Rajnandgaon and Bastar in the state of Chhattisgarh**

Particulars	From Date & Time	To Date & Time	Place
Date of issue of notice inviting EOI	30.12.2024 05:00 PM	---	----
Period of availability of EOI document at website	30.12.2024 05:00 PM	30.01.2025 05:00 PM	<a href="http://www.creda.co.in/Tenders">www.creda.co.in/Tenders</a> <a href="https://eproc.cgstate.gov.in">https://eproc.cgstate.gov.in</a>
Submission of Pre Bid queries in writing	30.12.2024 05:00 PM	07.01.2025 05:00 PM	To be Submitted hard copy at CREDA HO, Raipur or through E-mail at <a href="mailto:credatendercell@gmail.com">credatendercell@gmail.com</a>
Submission of Online Bid (Expression of interest) and submission of Documents in hard copy	30.12.2024 05:00 PM	30.01.2025 05:00 PM	<a href="https://eproc.cgstate.gov.in">https://eproc.cgstate.gov.in</a>
Opening of Technical Bid	31.01.2025 03:00 PM Onwards		At CREDA H.O., Conference Hall, Raipur. ( <a href="https://eproc.cgstate.gov.in">https://eproc.cgstate.gov.in</a> )
Evaluation of technical bid and Declaration of eligible bidder (The technical qualification part)	04.02.2025 12:00 PM Onwards		At CREDA H.O., Conference Hall, Raipur. ( <a href="https://eproc.cgstate.gov.in">https://eproc.cgstate.gov.in</a> )
Opening of e- Price Bid	07.02.2025 12:00 PM Onwards		At CREDA H.O., Conference Hall, Raipur. ( <a href="https://eproc.cgstate.gov.in">https://eproc.cgstate.gov.in</a> )

**EOI Document Cost– Rs.1,000.00 + 18% GST = Rs.1180.00**

**(in words Rupees Eleven Hundred Eighty Only) to be deposited in CREDA's account along with EMD via Demand Draft/ Pay Order or RTGS / NEFT.**

Document can be downloaded from our website [www.creda.co.in](http://www.creda.co.in) or from Chhattisgarh e-Procurement portal i.e. <https://eproc.cgstate.gov.in>.

# CHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY

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**NOTICE INVITING BID**

CREDA invites Expression of Interest for Design, Installation, Operation and Maintenance of Solar Powered Battery Swapping Station Of Electric Vehicle in RESCO model near Energy Education Park – Bilaspur. Rajnandgaon and Bastar in the state of Chhattisgarh from experienced firm, as per following details-

Sl. No.	Item Description	Approximate Quantity	Cost of EOI Document	EMD	Essentials
1	Design, installation, operation and maintenance of Solar Powered Battery swapping station of electric vehicle in RESCO model	03	Rs 1,000.00 +18% GST = Rs.1800.00	Rs. 1,00,000.00	As per clause no.1a to 1g of Eligibility Criteria (Page no.09-10)

Estimated Value of EOI:-Rs. 1.20 Crore

**Important Events and time schedule for this Bid are as follows –**

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Opening of e- Price Bid	07.02.2025 12:00 PM Onwards		At CREDA H.O., Conference Hall, Raipur. ( <a href="https://eproc.cgstate.gov.in">https://eproc.cgstate.gov.in</a> )

Technical Bid and Price Bid shall be submitted online only at <https://eproc.cgstate.gov.in>. However Technical Bid (as per the checklist) also has to be submitted duly signed hard copy at EE (Tender Cell). If there is any discrepancy in the e-Bid and hard copy, only the documents in e-Bid shall be valid. **In no case the hard copy of documents shall be evaluated, they are only for record keeping by CREDA.** Bidders are advised to follow the instructions provided for Registration and e-Submission Process accordingly. (For any query about e-bidding please visit user manual at <https://eproc.cgstate.gov.in>). Details of this Bid are mentioned at EOI Documents which can be downloaded from our website-[www.creda.co.in](http://www.creda.co.in).

**The Bidder should have to deposit EOI document cost along with EMD as mentioned above through Demand Draft/Pay Order or NEFT/RTGS payable to CREDA Raipur while submitting tender.**

Bidders are requested to submit their suggestions/objections/ reservations if any with details so as to avoid any confusion and to ensure clarity and transparency regarding the Bid in writing or by e-mail. Any Addendum/Corrigendum/Amendment Notice if arises will only be uploaded on CREDA's Website. CREDA reserves all rights to accept/reject any or all tenders in full/part without assigning any reasons.

Executive Engineer (Tender Cell)  
H.O. CREDA,Raipur (CG)

**CHECK LIST OF DOCUMENTS TO BE UPLOADED IN THE E-BIDDING PORTAL**

To ensure that your Bid uploaded on the Chhattisgarh e-Procurement portal i.e. <https://eproc.cgstate.gov.in> is complete in all respects, please go through the following checklist & tick mark for the enclosures attached with your Bid –

S. No	Envelope	Description of documents to be uploaded in the e-bidding portal	Value/No./Amount)	Remarks
1.	<b>A. Pre-Qualification</b>	EMD and EOI Document Fee submission form of the bidder confirmed by CREDA (as on page – 5)		
2.		Scanned copy of Undertaking of the Bidder as mentioned on Page –6 of the tender document on the letter head of bidder		
3.		Scanned copy of original EOI document duly signed & with stamp on each page, as a confirmation of acceptance of the Terms & Conditions (T&C).		
4.		PAN, GSTIN issued in the name of the bidder		
5.		Self-certificate from Bidder on not being a debarred from Government contract or a blacklisted company.		
6.		Declaration of conflict of interest - by bidder about any relatives working with CREDA and Affidavit.		
7.	<b>B. Technical and Financial Qualification</b>	Copy of Approved and valid Test Reports (if any).		
8.		Original Net Worth Certificate duly signed by Chartered Accountant as on 31 <sup>st</sup> March 2023/2024.		
9.		Self-attested copy of original certificate for last three financial years Turnover i.e. 2020-21, 2021-22& 2022-23/2023-24 of work done in vehicle supply.		
10.		Self-attested copy of original ITRs for last three financial Years i.e. 2020-21, 2021-22& 2022-23/2023-24of the bidder		
11.		Completion Certificates of supply and installation of Battery swapping station anywhere in India ( <b>Annexure I</b> )		
12.		Technical Data Sheet (if any).		
13.		Authorization letter from OEM if required		

**Note:-** Bidders shall have to also submit the original hard copies of the above mentioned documents.

**Details of EMD and EOI Document Fee**

Name of A/c	CREDA
Bank & Branch Name	ICICI Bank, Panchpedi Naka, Raipur
Bank Account Number	134601000400
Branch IFSC Code	ICIC0001346
Bid No. and Date	
Name of the Bidder	
<b>Bidder's Bank Account Details</b>	
(i) Name of the bank	
(ii) Branch	
(iii) IFSC Code	
(iv) Account No.	
(v) Transaction reference number	EMD - _____ ;Bid Document Fee - _____
(vi) Date of transaction	EMD - _____ ;Bid Document Fee - _____
(vii) EMD	Rs. ....../- In Words (Rs.....)
(viii) Bid Document Fee	Rs. ....../- In Words (Rs.....)

(Sign &amp; Seal of the bidder)

**\*NOTE –**

- The EMD and EOI Document Fee shall have to be deposited as mentioned in the EOI in CREDA's bank account (amount mentioned above). Bidder shall have to upload the transaction details as above or a scanned copy of the DD (if transaction is done through DD)**
- In case the transaction is done through DD, the original DD has to be submitted in envelope as per Clause 6(d).**

**UNDERTAKING OF THE BIDDER**  
**(To be submitted on letter head)**

I/We have read carefully and examined the notice inviting Bid, schedule, General Rules and terms and conditions of the contract, special conditions, Schedule of Rates and other documents and Rules referred to in the Bid document for the supply.

I/We hereby tender my rates for the execution of the work for CREDA as specified within the time stipulated in the schedule in accordance with all aspects with the specifications, designs, drawings and instructions with such conditions so far as applicable.

I/We agree to keep the Bid valid for One Hundred Eighty (180) days from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of **Rs. One Lakh** is hereby forwarded as **Earnest Money** in the form of crossed Demand draft/Pay order / RTGS / NEFT payable to CREDA at Raipur (C.G.). If I/We fail to commence or complete the sanction ordered in specified time or fail to fulfill the any condition of Bid document, I/We agree that the CREDA shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. The said Earnest Money shall be retained by CREDA towards security deposit to execute all the works referred to in the Bid documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.

I/We hereby declare that I/We shall treat the Bid documents, specifications and other records connected with the work as secret/confidential and shall not communicate information derived there from to any person other than a person to whom I/We have authorized to communicate the same or use the information in any manner prejudicial to the safety of CREDA/Government.

I/We shall abide to all the laws and shall be responsible for making payments of all the taxes, duties, levies and other Govt. dues etc. to the appropriate Govt. departments.

Our GST Registration No. \_\_\_\_\_ .The PAN No. under the Income Tax Act is \_\_\_\_\_.

I/We shall be responsible for the payment of the respective taxes to the appropriate authorities and should I/we fail to do so, I/we hereby authorize CREDA to recover the taxes due from us and deposit the same with the appropriate authorities on their demand.

I/We declare that none of our relatives is working in CREDA either on Regular/Contract/Placement basis or I/We don't have any partnership/subcontract obligation with any employee working in CREDA at present directly or indirectly and we will not enter in such obligation in future also. If any breach of declaration is found than we will be responsible for our debarment and any other action taken by CREDA.

Dated: **Signature**

Place:

**Name of Bidder with seal.....**

**Witness:**

Signature: .....

Name: .....

Postal Address:

.....  
.....  
.....  
.....

## SECTION - 1

### INSTRUCTIONS FOR BIDDERS

#### 1. **ELIGIBILITY CRITERIA-**

Company/ firm who have experience in installation and operation of Battery swapping station may participate in this EOI:-

##### a. **MINIMUM EXPERIENCE**

Bidders must have experience in supply, Installation & Commissioning of **1 number of Battery swapping station and/or single plant of capacity minimum 10kWp and cumulative of 100kWp battery based (off grid) / on grid solar power plant during last 4 years i.e. 2020-21, 2021-22, 2022-23 and 2023-24** of in related category to any government department or Private organization in India.

i. Bidder has to submit the experience certificate issued from the government department or Private organization as a proof of experience.

ii. If authorized dealer of any manufacturer will participate in this tender, then the valid authorization certificate issued from original manufacturer must be submitted with the bid documents. Without authorization certificate their bid shall not be accepted.

d. Bidders must have a Positive Net worth (**Positive Net worth means “Net value of the Assets minus (-) Net value of liabilities”**) of **Rs.50 Lacs as on 31<sup>st</sup> March 2024.**

They shall have to submit an **Original CA Certified Certificate** duly signed by a qualified and registered Chartered Accountant having UDI number as a proof. Produced certificate must tally with the audited balance sheet.

b. Bidders should have an aggregate turnover of **Minimum Rs. 01 Crore in during last 4 years i.e. 2020-21, 2021-22, 2022-23 and 2023-24** in related Projects. Certified copies of the annual returns and audited balance sheet submitted to the Registrar of Companies/ Income Tax Authorities should be enclosed. For the preceding years an **Original Summarized Sheet** of turnover certified by registered CA must be enclosed. **In case of FY 2023-24 Bidder are allowed to submit provisional balance sheet, ITR, Turnover and Net-worth Certificate. CREDA reserves the right to call for these documents once audited from such bidders anytime during the validity of the bid.**

c. Bidders who are debarred from business by Govt. /Govt. Agency in any state would not be eligible to participate in this bid. A self-declaration should be submitted by the bidder to this effect, failing which bid shall be rejected.

d. 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 etc; and/or

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 CREDA.

#### 2. **BIDDING PROCESS-**

For ease of accessing the e-bidding website and registration the following is to be done by bidder -

a. Visit <https://eproc.cgstate.gov.in>

b. Prospective bidders are requested to download, read and understand the Manuals present on the website so as to clearly understand the bid submission process.

c. The user will be directed to e-bidding page where all information regarding registration is available along with helpline details.

- d. Technical bid and Price Bid shall be submitted online only at <https://eproc.cgstate.gov.in> latest by **05.00 PM on 30.01.2025**. Bids submitted after scheduled time and date shall not be considered.
3. **EMD AND EOI DOCUMENT FEE-**  
Earnest Money Deposit of Rs. **One Lakh** submitted in the form of Demand Draft/Pay Order or RTGS/NEFT as mentioned in the **NIT vide no. 15361/CREDA/Battery-Swapping/2024-25 Date: 30.12.2024**, EMD submitted in any other form e.g. **Cash/Bank Guarantee/FDR/TDR etc. shall not be accepted.**
4. **SUBMISSION OF DOCUMENTS -**
- a. All the documents including technical and financial Bid should be submitted online on Chhattisgarh e-Procurement portal <https://eproc.cgstate.gov.in> as per the items mentioned in the Checklist on page **no.04** in this bid.
- b. Bidders are advised to finish all the bidding portal related activities such as registration, USB certificate/token approval, and payments etc. well in advance so as to avoid last minute difficulties during the bid submission.
- c. Bidders are also advised to make themselves fully aware with the bid submission mechanism to avoid last minute hassles and doubts during bid submission. CREDA shall only entertain genuine technical issues/glitches, provided that the bidder submits evidence regarding the same.
- d. Additionally, the bidders shall also have to submit all the documents, in original hard copy, as required in this bid as per the checklist on **page 04** during the opening of technical bid. Bidders shall have to submit only the documents as per the checklist in the following envelopes.
- Envelope A** –Pre-Qualification Documents (original DD should be submitted in this envelope)
- Envelope B** –Financial Qualification Documents. (GST, PAN; Net worth; Turnover; ITR and Balance Sheet)
- Envelope C** –Technical Qualification Documents
- Note: The Envelopes mentioned above are only for submission’s sake only and must not be related with the Envelopes mentioned in the context of the checklist on **page-04**.** The documents submitted in hard copy (offline) before CREDA officials must match with those submitted in the Chhattisgarh e-Procurement portal. Any document other than the uploaded document shall not be considered. CREDA’s tender committee will only evaluate the documents submitted on Chhattisgarh e-Procurement portal. In no case the hard copy of documents shall be evaluated, they are only for record keeping by CREDA.
5. **GST & PAN-**  
Bidder shall have to submit copies of GST registration number and PAN numbers issued by the appropriate authority.
6. **THE BID-**
- a. The Pre-Qualification, Technical-Financial Qualification Documents and Price Bid, other related documents must be uploaded in the portal i.e. <https://eproc.cgstate.gov.in> **from 30.12.2024 05:00 PM onward till 30.01.2025 up to 05:00 PM.**
- b. Nobody is authorized to receive or grant receipt for Bid delivered on behalf of CREDA. **Bid received through any other means shall not be considered and shall be rejected.**
7. **ANALYSIS OF RATE -**  
Bidder should quote their rates considering variation of site conditions and all other factors in price of different components and keeping the quantum and quality of work in mind.
8. **VALIDITY-**  
Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least **180 days** from the date of opening. After finalization of this Bid the approved rates shall be valid till two years from the date of award;



however, CREDA shall have liberty to increase or decrease this validity if needed.

**9. TERMS & CONDITIONS-**

- a. The terms, conditions and specifications mentioned in EOI document shall be binding on the Bidders and no condition or stipulation contrary to the conditions shall be acceptable. It may please be noted that the Bidders who do not accept terms and conditions stipulated in this Bid documents, their offers shall be liable to be rejected out-rightly without assigning any reason whatsoever.
- b. Each page of EOI document & enclosures shall be signed by the Bidder and seal affixed. All the pages of the documents issued must be submitted along with the technical offer. In case of any corrections / alterations in the Bid, the Bidder should attest the same; otherwise, Bids may not be considered.
- c. Bidders are also instructed to submit their Bids in properly arranged manner (with index, proper paging and with flags on important documents). Incomplete, lose, conditional or improper arranged Bids will not be accepted.

**10. CREDA RESERVES THE RIGHT-**

- a. To reject or accept any or all Bids fully or partly without assigning any reason on the grounds considered advantageous to CREDA, whether it is the lowest Bid or not.
- b. To split the quantities against the Bid further for the same items/work. No reason will be assigned by CREDA for this and will be binding on the Bidders.
- c. To increase or decrease of aggregate quantities as per discretion or circumstances.
- d. CREDA may engage by taking consent from other eligible Bidders for early implementation of work on L1 / rates approved by CREDA., if required.
- e. CREDA may undergo agreement with those eligible Bidders who give consent to work on rates fixed by CREDA and may allocate work to them.
- f. CREDA reserves the right to amend or change minor specifications of the entire or any component of solar power operated Battery swapping station.
- g. CREDA may undergo agreement with those eligible Bidders who give consent to work on rates standardized by CREDA and may allocate work to them. Rates approved through this Bid may be standardized for all eligible Bids to work in FY year 2024-25 & 2025-26. However, CREDA reserves right to curtail or extend this period.

**11. COMMUNICATIONS -**

- a. All the communication between Bidder and CREDA shall be in writing. Notice sent by Fax or other Electronic means shall be effective on confirmation of the transmission. Notice sent by registered post or speed post shall be effective of delivery or at expiry of normal delivery period as under taken by Postal Service.
- b. Offers through Telegraph/Fax/Emails/Post/Courier or open offers etc. received shall be summarily rejected.

**12. EOI DOCUMENT FEE AND EARNESTMONEY DEPOSIT-**

- a. Each Bidder should submit EOI Document Fee and earnest money in the form of Demand Draft/Pay Order or RTGS/NEFT. Each bidder should submit EOI Document Fee and Earnest Money Deposit (EMD) in the form of RTGS/NEFT as single transaction only as mentioned in the Bid No. **163610/CREDA/Battery Swapping/2024-25 Dated 30.12.2024.**
- b. **Tender Document Fee and EMD submitted in any other form e.g. Cash/Bank Guarantee/FDR/TDR etc. shall not be accepted.**

**13. PRE-BID QUERIES SUBMISSION IN WRITING-**

- a. All suggestions, doubts, confusion, request, queries etc., shall have to be presented to CREDA in writing or through email to [credatendercell@gmail.com](mailto:credatendercell@gmail.com) on or before **07.01.2025 till 05:00 PM**. After that any representation in this regard shall not be considered.
- b. The purpose of pre-bid queries is to clarify issues and questions related to this Bid that can be raised at that stage. Any amendments in the bid documents which may become necessary as a result of pre-bid queries received shall be part of original Bid document and communicated through corrigendum on CREDA website [www.creda.co.in](http://www.creda.co.in) and on Chhattisgarh e-Procurement Portal <https://eproc.cgstate.gov.in>.

**14. FORFEITURE OF EARNEST MONEY DEPOSIT-**

It should be clearly understood that in the event of Bidder failing to enter into the agreement in the prescribed format on their quoted rates and also fails to execute assigned works under any Scheme of CREDA, within stipulated time, if he is so communicated within the validity period of the offer, the full amount of earnest money will be forfeited and Bidder shall be debarred from future business with CREDA including future participation in bids up to three years. CREDA's decision in this regard will be final and binding on the Bidders.

**15. ENGINEERING DOCUMENT-**

Bidders will have to submit Engineering Documents with technical details, drawings, Specifications of components and make etc. to CREDA for approval, as and when asked by CREDA. Works may only be started out only after approval of the Engineering Document and their samples. (if any)

**16. MAINTENANCE CONTRACT-**

The maintenance of Solar power operated Battery swapping station shall be in the scope of eligible bidder only.

**17. SAMPLES –**

If required, CREDA may ask the bidder to visit the existing Battery swapping station installed and operated by the bidder.

**18. CORRUPT OR FRAUDULENT PRACTICES -**

- a. CREDA requires the bidder to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.
- b. It is required that each bidder (including their respective officers, employees and sub-contractors) adhere to the highest ethical standards, and report to the Government/ Department all suspected acts of fraud or corruption or coercion or collusion of which it has knowledge or become aware, during the tendering process and throughout the negotiation or award of contract.

**19. TAX OBLIGATIONS-**

CREDA shall deduct TDS for Income Tax, applicable cess on any work under various acts and deposited with the appropriate authority. Costs and taxes are for execution of agreement with CREDA, so as to ensure tax deposition as per Government Rules accordingly.

**20. JURISDICTION OF THE COURT-**

Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh.

## SECTION - 2 GENERAL CONDITIONS OF CONTRACT

### 1. DEFINITIONS -

In writing General Conditions of Contract, the specifications and bill of quantity, the following words shall have the meanings hereby indicated, unless there is something in the subject matter or content inconsistent with the subject.

- a. **CREDA** shall mean the Chhattisgarh State Renewable Energy Development Agency represented through the Executive Engineer.
- b. **Work** shall mean any work entrusted to the Bidder as mentioned in the scope of work and Work Order.
- c. **Contractor** eligible party who executes the work awarded by CREDA.
- d. The "**Engineer in charge**" shall mean the Engineer or Engineers authorized by CREDA for the purpose of this contract. Inspecting Authority shall mean any Engineering person or personnel authorized by CREDA to supervise and inspect the Design, installation, operation and maintenance of Solar Powered Battery swapping station of electric vehicle.
- e. "**The Eligible Bidder**" shall mean the Bidder awarded with the contract or their successors and permitted assigns.
- f. Contract Price shall mean the sum named in or calculated in accordance with the provisions of the contract as the contract price.
- g. General Conditions shall mean the General conditions of Contract.
- h. "**Specifications**" shall mean the specifications annexed to these General Conditions of contract.
- i. "**Month**" shall mean calendar month. "Writing" shall include any manuscript, typewritten, printed or other statement reproduced in any visible form whether under seal or written by hand.

### 2. PROOF OF MANUFACTURER-

Those bidders who are original equipment manufacturers of an important component of **Battery swapping station** shall have to submit proof of their manufacturing unit and appropriate registration documents and list of Machineries and Equipment's.

### 3. CONTRACT DOCUMENT-

The term "Contract" shall mean and include the General conditions, specifications, schedules, drawings and Work Orders etc., issued against the contract schedule of price or their final general conditions, any special conditions applying to the particular contract specification and drawings and agreement to be entered into. Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian contract Act or any other Act in vogue or by any person of common knowledge and prudence.

### 4. VARIATIONS, ADDITIONS & OMISSIONS-

CREDA shall have the right to alter, amend, omit, split or otherwise vary the quantum of work, by notice in writing to the bidder. The eligible bidder shall carry out such variation in accordance with the rates specified in the contract so far as they may apply and where such rates are not available; those will be mutually agreed between CREDA and the eligible bidder.

### 5. COMPLETION OF WORK-

Time being the essence of contract, the installation of Battery swapping stations shall be completed within the time schedule prescribed in the Order.

**6. ELIGIBLE BIDDER'S LIABILITY IN CASE OF DEFAULT-**

CREDA may by written notice of default to the eligible contractor, terminate the contract in circumstances detailed hereunder -

- a. If in the opinion of the CREDA, the eligible bidder fails to complete the work within the time specified in the Order or within the period for which extension has been granted by CREDA to the eligible bidder.
- b. If in the opinion of CREDA, the eligible bidder fails to comply with any of the provisions of this contract.
- c. In the event of CREDA terminating the contract in whole or in part as provided in paragraph (a) above, CREDA reserves the right to engage another eligible bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the completion of work and or for penalty as defined under this Bid document until such reasonable time as may be required for the final completion of the work. CREDA may debar such a defaulter bidder for up to three years from taking participation in taking part in all activities of CREDA.
- d. In the event CREDA does not terminate the contract as provided in paragraph (a) the eligible bidder shall continue performance of the contract; in which case he shall be liable to CREDA for penalty for delay as set out in **clause 12** until the work is completed.

**7. FORCE MAJEURE-**

The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that if contractor shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify.

**8. REJECTION OF WORKS -**

In the event of any of the material supplied by the eligible bidder is found defective in material or workman ship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material or advise the eligible bidder to rectify the same. **CREDA may impose penalty for such rejection up to the 200% cost of the entire system.** The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the problems free of cost.

**9. EXTENSION OF THE TIME-**

If the completion of supply is delayed due to any reason beyond the control of the eligible bidder, the eligible bidder shall without delay give notice to the CREDA in writing of his claim for an extension of time. CREDA on receipt of such notice may or may not agree to extend the contract date of the installation and commissioning of Battery swapping station may be reasonable but without prejudice to other terms and conditions of the contract.

**Chief Executive Officer, CREDA has full right for unconditional time extension.**

**10. MAKES OF EQUIPMENTS TO BE USED IN THE WORK-**

- a. All Equipment should be as per ISO/AIS/BIS/CE standards.
- b. The eligible bidder has to ensure that equipment's are as per standards set by the Indian **Ministry of Road Transport and Highways (MoRTH), Ministry of New & Renewable Energy (MNRE) and Central Electricity Authority (CEA)** for design and manufacturing of Batteries for e-vehicle and its swapping stations.

**11. WARRANTEE PERIOD AND POST INSTALLATION SERVICES-**

- a. Eligible bidder / contractor will be responsible for Design, installation, operation and maintenance of Solar Powered Battery swapping station of electric vehicle for the contracted period.

**12. TERMS OF PAYMENT-**

- a) Under the RESCO Model, the Service Company/ Eligible Bidder/ contractor shall bear the full cost of the design, procurement, installation, and commissioning of the solar-powered battery swapping station.
- b) Estimated **Operational Costs** to be borne by the Service Company include:
- Electricity charges (supplementary grid power, if required).
  - Maintenance of solar power infrastructure and swapping kiosks.
  - Salaries and wages of operational staff and technical personnel.
  - Battery maintenance and replacement.
  - User service platform maintenance and payment gateway charges.
  - Marketing and outreach activities to ensure station utilization.
- c) CREDA shall not provide any direct financial assistance to eligible bidder/ contractor/ service company.
- d) The Service Company may explore revenue generation opportunities through: -
- User fees for battery swapping.
  - Subscription plans for regular users.
  - Carbon credits and incentives for promoting clean energy solutions.
- e) The service company shall have to pay 10% of its earning from the swapping of batteries per month, as a part of payment lies of land which has provided by CREDA to the service company for swapping station.

**13. SECURITY DEPOSIT (SD)-**

- a. The Earnest Money shall be retained by CREDA up to the duration of contract period, after agreement is done to execute all the works referred to in the EOI documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.
- b. CREDA will not pay any interest for the EMD/ SD amount kept in CREDA to the bidder.
- c. After completion of contract period, CREDA may review the status of swapping station and land and if found report found satisfactory then only release EMD will be released to the concern bidder.

**14. INSURANCE-**

The eligible bidder shall arrange insurance coverage for the solar powered battery swapping station.

**15. PENALTY DUE FROM THE ELIGIBLE BIDDER-**

All costs of damages and delays for which the eligible contractor is liable to the CREDA will be deducted from any money due to the eligible contractor including the security deposit/ EMD of project under CREDA. Additionally, CREDA reserves the right to blacklist or debar such a bidder from participating in future projects or activities of CREDA until further notice.

**16. RESPONSIBILITY OF ELIGIBLE BIDDER-**

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the battery swapping station by CREDA, if any, the ultimate responsibility for satisfactory performance of the battery swapping station shall rest with the eligible bidder.

**17. CERTIFICATES NOT TO AFFECT RIGHTS OF CREDA-**

The issuance of any certificate by CREDA or any extension of time granted by CREDA shall not prejudice the rights of CREDA in terms of the contract nor shall they relieve the eligible contractor of his obligations for due performance of the contract.

**18. SETTLEMENT OF DISPUTES THROUGH ARBITRATION-**

- a. Except as otherwise specifically provided in the contract, all disputes concerning questions of fact arising under the contract shall be decided by the Chief Executive Officer (CEO), CREDA provided a written appeal by the eligible bidder is made to CREDA. The decision of the CEO, CREDA shall be final and binding to the all concerns.
- b. Any dispute or difference including those considered as such by only of the parties arising out of or in connection with the contract shall be to the extent possible be settled amicably between the parties. If amicable settlement cannot be reached then all disputed issues shall be settled by arbitration at Chhattisgarh.

**19. DECLARATION OF CONFLICT OF INTEREST-**

- a. Any regular employee working or worked on basis of contract or through placement agency cannot work directly or indirectly in any scheme of CREDA. If such a person is found working with any Contractor or through sublet then, such SI shall be blacklisted for three years.
- b. The bidder shall not be permitted to Bid for the work if the section of HO CREDA (responsible for implementation of work) in which his near relative is posted. Furthermore, the successful bidder shall not be given work in the district in which his near relative is posted. The bidder shall also intimate the names of his near relatives working in CREDA. Bidder shall also intimate the name of persons who are working with him in any capacity and who are near relatives to any employee in CREDA. Any breach of this condition by Contractor would render himself liable to be blacklisted for three years and removed from approved list of Contractors in CREDA.  
**Note-** By the term near relatives are meant Wife, Husband, Parents and son, Brother, Sister, Brother-in-law, Father-in-law, and Mother-in-law etc.
- c. Bidder must produce an affidavit (**Annexure – III**) stating the names of retired/removed employee of CREDA (if any) in his employment who retired /removed within last two years, if in case there is no such person in his employment, his affidavit should clearly state this fact. This affidavit is mandatory, if it is not produced along with the bid, the bid shall be rejected.

**20. LAWS GOVERNING CONTRACT-**

The contract shall be constituted according to and subject to the Laws of India and jurisdiction of the High Court of Bilaspur, Chhattisgarh.

**21. LANGUAGE AND MEASURES-**

All documents pertaining to the Contract including specifications, schedules, notice correspondences, operating and maintenance instructions, drawings or any other writings shall be written in English / Hindi language. The metric system of measurement shall be used in this contract.

**22. CORRESPONDENCE-**

- a. Any notice to the eligible bidder under the terms of the contract shall be served by registered mail to the registered office of the eligible contractor or by hand to the authorized local representative of the eligible contractor and copy by post to the eligible contractor's principal place of business.
- b. Any notice to CREDA shall be served to the Superintending Engineer, CREDA Raipur in the same manner.

**23. SECRECY-**

The eligible contractor shall treat the details of the specifications and other documents as private and confidential and they shall not be reproduced without written authorization from CREDA.

**24. AGREEMENT-**

The successful eligible Contractor shall have to enter into an agreement with the CREDA in the approved contract agreement form within **10 days** of the receipt of call from CREDA.

**25. BID EVALUATION CRITERIA-**

- a. Offers of only those parties, who are found qualified based on Eligibility Criteria and Technical Bid, will be taken into further consideration and financial bid of only those parties who are qualifying the criteria of Technical Bid will be opened.
- b. Other things being equal, the lowest rates shall normally be preferred, but CREDA shall have rights and liberty to amend/lower the rates.
- c. Conditional Bids shall not be accepted.
- d. CREDA shall have rights and liberty to call any /other parties who are technically qualified but not accepted to work on approved rates, as and when required in accordance with quantum of work and scheduled time limits for completion of targets.

**26. EVALUTION OF PRICE BID-**

- a) Financial Bid- The bidder shall to quote rates for supply of New Batteries for electric auto rikshaw / e- Byk and rates for battery swapping. Price bid shall be evaluated on the basis of sum of all quoted rates i.e.  $A1+A2+B1+B2+C1+C2+D$  of Price Bid for each site. L1 rate i.e. lowest rate shall be considered, however CREDA shall have discretionary power to amend/lower the rates.
- b) The selected bidder will be awarded the work for design, installation, operation and maintenance of Solar Powered Battery swapping station of electric vehicle in RESCO Model.

**27. ALLOCATION OF TARGETS AND AREA OF WORK-**

- a. The work will be allocated exclusively to the L1 bidder.
- b. However, if the L1 bidder fails to complete the work within the stipulated time period, CREDA reserves the right to offer the work to the L2 bidder at approved rates or engage two or more parties to execute the work at approved rate to ensure the timely completion of the work.

**28. BID REJECTION-**

If financial bid of a bidder has been opened on the **basis of technical bid of a bidder which has been determined to be substantially responsive to the bidding document and in latter stage it is found that bidder does not meet the eligibility criteria or the technical bid is found substantially non-responsive, CREDA reserves rights to reject such bid of a bidder anytime.**

**We (on behalf of Eligible Bidder) have read all the above stated details & accept to comply with it in total.**

(Name, Signature & Seal of the Bidder)

## SECTION-3 SCOPE OF WORK

### 1. SCOPE OF WORK

The scope of work under this EOI includes:

➤ **Roles of CREDA:**

- a. Facilitate the identification and allocation of the land near the Energy Education Park for setting up the battery swapping station.
- b. Provide the necessary administrative support and approvals for the installation of the project.
- c. Monitor and oversee the progress and ensure alignment with State energy goals.
- d. Assist in promoting awareness about the project and encourage usage of battery swapping infrastructure among e-vehicle users.

➤ **Roles of the Service Company:**

- a. Design, procure, and install the solar-powered battery swapping station infrastructure at the identified site for 02/03 Wheelers.
- b. Ensure the battery swapping facility is equipped to cater to electric two-wheelers and auto-rickshaws.
- c. Operate, manage, and maintain the swapping station for efficient functionality, including real-time monitoring and reporting.
- d. Provide a user-friendly platform for battery swapping operations, including mobile application integration, payment gateways, and usage analytics.
- e. Ensure compliance with safety, environmental, and operational standards, including the use of certified batteries and fire safety protocols. The Service company has to ensure/comply the electrical safety norms and standards as per the authorities of State and Central Govt. All the equipments installed in the swapping station must comply BIS and IEC Standards.
- f. Bear all the capital costs of the installation and commissioning of the facility under the RESCO Model.
- g. Develop a standard operating procedure (SOP) for station operations, including battery charging schedules, battery health monitoring, and user assistance protocols.
- h. Provide trained personnel to manage and oversee the daily operations of the battery swapping station, including customer support for e-vehicle users.
- i. Ensure preventive and corrective maintenance of the infrastructure to ensure seamless operations.
- j. The service company must provide standardized Healthy Batteries & the health of these batteries will be monitored in regular interval.

➤ **Operational Procedures for Battery Swapping:**

The station will provide fully charged batteries to e-vehicle users in exchange for their discharged batteries.

- a. A quick and efficient swapping process shall be ensured to minimize user downtime.
- b. The swapping station shall include multiple battery slots for simultaneous charging of discharged batteries.
- c. battery health management system shall be implemented to monitor the performance and condition of each battery in real time.
- d. Safety protocols, including fire prevention and emergency response systems, shall be adhered to strictly.
- e. The service company shall ensure an adequate inventory of charged batteries to meet the expected demand during peak hours.



## **2. COST AND FUNDING**

1. Under the RESCO Model, the Service Company shall bear the full cost of the design, procurement, installation, and commissioning of the solar-powered battery swapping station.
2. The indicative cost of installation shall include:
  - a) Solar Power Infrastructure: Solar PV panels, inverters, battery storage systems, and grid connection.
  - b) Battery Swapping Station Setup: Swapping kiosks, battery slots, charging points, and control systems.
  - c) Battery Procurement: Purchase of certified batteries compatible with the target electric vehicles.
  - d) Software and Monitoring: Deployment of software for user interface, battery tracking, and payment systems.
  - e) Safety and Security: Fire safety systems, CCTV surveillance, and physical security measures.
3. Estimated **Operational Costs** to be borne by the Service Company include:
  - a) a. Electricity charges (supplementary grid power, if required).
  - b) b. Maintenance of solar power infrastructure and swapping kiosks.
  - c) c. Salaries and wages of operational staff and technical personnel.
  - d) d. Battery maintenance and replacement.
  - e) e. User service platform maintenance and payment gateway charges.
  - f) f. Marketing and outreach activities to ensure station utilization.
  - g) CREDA shall not provide any direct financial assistance but will provide administrative and facilitative support.
4. The Service Company may explore revenue generation opportunities through
  - (a.) User fees for battery swapping.
  - (b.) Subscription plans for regular users.
  - (c) Carbon credits and incentives for promoting clean energy solutions.

## **3. OWNERSHIP AND OPERATION**

1. The ownership of the solar-powered battery swapping station infrastructure shall vest with the Service Company during the operation period.
2. The operation period under this agreement shall initially be for duration of **10 years**, it may be renewed upon mutual agreement.

After the agreed operation period, CREDA shall have the right to take over the infrastructure, subject to mutually agreed terms and conditions.

## **4. RESPONSIBILITIES OF THE PARTIES**

### **4.1 CREDA:**

- Provide assistance in obtaining approvals, clearances, and support from local authorities where required.
- Support outreach programs to encourage adoption of electric vehicles.

#### **4.2 Service Company:**

- Ensure timely completion of the installation of the project.
- Ensure uninterrupted operations of the swapping station.
- Provide periodic performance and maintenance reports to CREDA.
- Manage user education, customer support, and awareness programs to promote station usage.

#### **5. MONITORING AND REPORTING**

1. A Joint Monitoring Committee (JMC) shall be formed, comprising representatives from both Parties, to monitor the progress, performance, and operation of the battery swapping station.
2. The Service Company shall submit quarterly progress and operational reports to CREDA.

## SECTION -4

### TECHNICAL SPECIFICATION FOR DESIGN, SUPPLY, AND INSTALLATION OFE SOLAR-POWERED BATTERY SWAPPING STATION INFRASTRUCTURE

Component
Standardized Swappable LIFO Batteries for e-Rickshaw
Standardized Swappable Batteries for e-Scooters
Designing of e-rickshaw battery compartment
Supply & installation of Charger for e-rickshaw with rack, lot devise & electrical wiring of swapping station
Supply & installation of Charger for e-scooter with rack, lot devise & electrical wiring of swapping station
Development of Mobile App
Other Charging Station Arrangement (Rubber mat, fire extinguisher, Display board etc.)
Electricity Connection for swapping station
Supply & installation of On-grid Solar Power Plant with elevated structure to power swapping station
Supply & Installation of pre- fabricated control room for battery swapping station
Development of land for parking e-vehicle while swapping
Supply and installation of display board of swapping station
Control panels, charging mechanisms, electrical safety shall be followed strictly as per norms of central electricity authority.
Other Developments as per requirement.

**SECTION -5**

**ANNEXURES, SPECIFICATIONS, FORMS**

**ANNEXURE – I**

**(EXPERIENCE CERTIFICATE ON THE OFFICIAL LETTER HEAD OF CONCERNED GOVERNMENT DEPARTMENT OR PRIVATE ORGANIZATION WITH SEAL AND SIGN BY AUTHORIZEDSIGNATORY)**

Ref.No..... Date.....

**CERTIFICATE OF COMPLETION**

This is to certify that **Name of Bidder, Address of Registered Office** has successfully completed the work of design supply, installation & commissioned of Battery swapping stations against various Sanction of Name of Agency..... at various locations in ..... State, as per following details–

S.no	Type of related work	Year & Scheme	Value of work	Remarks
	<b>Total -</b>			

**Seal & Sign**  
**(Authorized Signatory)**

**e-Price Bid****e-Price Bid (For supply of New Battery to E-vehicle owner and charging/ swapping charges )***(e-bidding as per Specifications & Scope of Work of*

EOI DOCUMENT No. 163610/CREDA/ Battery Swapping/2024-25 Dated-30.12.2024)

Rates for the Supply of New battery for E- vehicle and its charging/ swapping from swapping stations situated **near Energy Education Park, Bilaspur, Chhattisgarh** as per scope of work, technical requirement, specifications & terms and conditions etc of the EOI.

Site- **Near Energy Education Park, Bilaspur (C.G.)****Price Bid Part A**

The following quoted rates shall be applicable for consumer towards purchasing for new Battery and battery swapping

Item Code	Type of Vehicle	Type of battery	Rate for supply of Battery (Excluding GST) (In Rs.)
A1	E- auto rikshaw	45 Ah/ 48 Volt LIFO battery/ suitable, equivalent	
A2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Type of Vehicle	Type of battery	Unit Rate for Swapping of Discharged Battery with Charged Battery (Excluding GST) (In Rs.)
B1	E- auto rikshaw	45 Ah/ 48 Volt LIFO battery/ suitable, equivalent	
B2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/suitable, equivalent	

Item Code	Type of Vehicle	Type of battery	Per Unit (kWh) Rate for Charging of Discharged Battery (Excluding GST) (In Rs.)
C1	E- auto rikshaw	Suitable, equivalent	
C2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Particular	Rate (Excluding GST) (In Rs.)
D	Supply, Installation & Commissioning of Solarized Battery Swapping Station With Control Room	

Price bid shall be evaluated on the basis of sum of all quoted rates i.e.  $A1+A2+B1+B2+C1+C2+D$  of Price Bid for each site  
(No other cost will be claimed other than above quotes price & the applicable GST)

Signature of the Authorized Signatory:.....

Seal of Company: .....

Date: .....

**e-Price Bid****e-Price Bid (For supply of New Battery to E-vehicle owner and charging/ swapping charges )***(e-bidding as per Specifications & Scope of Work of*

EOI DOCUMENT No. 163610/CREDA/ Battery Swapping /2024-25 Dated-30.12.2024)

Rates for the Supply of New battery for E- vehicle and its charging/ swapping from swapping stations situated **near Energy Education Park, Rajnandgaon, Chhattisgarh** as per scope of work, technical requirement, specifications & terms and conditions etc of the EOI.

Site- **Near Energy Education Park, Rajnandgaon (C.G.)****Price Bid Part B**

The following quoted rates shall be applicable for consumer towards purchasing for new Battery and battery swapping

Item Code	Type of Vehicle	Type of battery	Rate for supply of Battery (Excluding GST) (In Rs.)
A1	E- auto rikshaw	45 Ah/ 48 Volt LIFO battery/ suitable, equivalent	
A2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Type of Vehicle	Type of battery	Unit Rate for Swapping of Discharged Battery with Charged Battery (Excluding GST) (In Rs.)
B1	E- auto rikshaw	45 Ah/ 48 Volt LIFO battery/ suitable, equivalent	
B2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Type of Vehicle	Type of battery	Per Unit (kWh) Rate for Charging of Discharged Battery (Excluding GST) (In Rs.)
C1	E- auto rikshaw	Suitable, equivalent	
C2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Particular	Rate (Excluding GST) (In Rs.)
D	Supply, Installation & Commissioning of Solarized Battery Swapping Station With Control Room	

Price bid shall be evaluated on the basis of sum of all quoted rates i.e.  $A1+A2+B1+B2+C1+C2+D$  of Price Bid for each site  
(No other cost will be claimed other than above quotes price & the applicable GST)

Signature of the Authorized Signatory:.....

Seal of Company: .....

Date: .....

**e-Price Bid****e-Price Bid (For supply of New Battery to E-vehicle owner and charging/ swapping charges )***(e-bidding as per Specifications & Scope of Work of*

EOI DOCUMENT No. 163610/CREDA/ Battery Swapping /2024-25 Dated-30.12.2024)

Rates for the Supply of New battery for E- vehicle and its charging/ swapping from swapping stations situated **near Energy Education Park, Jagdalpur, Chhattisgarh** as per scope of work, technical requirement, specifications & terms and conditions etc of the EOI.

Site- **Near Energy Education Park, Jagdalpur (C.G.)****Price Bid Part C**

The following quoted rates shall be applicable for consumer towards purchasing for new Battery and battery swapping

Item Code	Type of Vehicle	Type of battery	Rate for supply of Battery (Excluding GST) (In Rs.)
A1	E- auto rikshaw	45 Ah/ 48 Volt LIFO battery/ suitable, equivalent	
A2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Type of Vehicle	Type of battery	Unit Rate for Swapping of Discharged Battery with Charged Battery (Excluding GST) (In Rs.)
B1	E- auto rikshaw	45 Ah/ 48 Volt LIFO battery/ suitable, equivalent	
B2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Type of Vehicle	Type of battery	Per Unit (kWh) Rate for Charging of Discharged Battery (Excluding GST) (In Rs.)
C1	E- auto rikshaw	Suitable, equivalent	
C2	E- Vehicle (Two Wheeler)	30 Ah/ 51.20 Volt LIFO Battery/ suitable, equivalent	

Item Code	Particular	Rate (Excluding GST) (In Rs.)
D	Supply, Installation & Commissioning of Solarized Battery Swapping Station With Control Room	

Price bid shall be evaluated on the basis of sum of all quoted rates i.e.  $A1+A2+B1+B2+C1+C2+D$  of Price Bid for each site  
(No other cost will be claimed other than above quotes price & the applicable GST)

Signature of the Authorized Signatory:.....

Seal of Company: .....

Date: .....

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## Memorandum of Understanding

Between



**Chhattisgarh State Renewable Energy Development Agency,  
Raipur  
And**

**(Symbol and Service Company Name)**

MoU is hereby signed on \_\_\_\_\_ between Chhattisgarh State Renewable Energy Development Agency (CREDA), VIP Road (Airport Road), Near Energy Education Park, Raipur-492015, and (Service Company Name)

### **PREAMBLE**

Whereas:

1. CREDA is committed to promoting renewable energy solutions and sustainable energy projects in the State of Chhattisgarh to achieve clean energy goals.
2. The Service Company has expertise in the design, installation, operation, and maintenance of solar-powered battery swapping stations for electric vehicles.
3. Both Parties are desirous of collaborating for the installation and operation of a **Solar Power Operated Battery Swapping Station** for electric vehicles (auto-rickshaws and two-wheelers) near the Energy Education Park in Chhattisgarh.
4. This collaboration shall be executed under the **RESCO model** wherein the infrastructure and installation costs shall be borne as outlined herein.

**Whereas both Parties have decided to enter into a Memorandum of Understanding, hereinafter called MoU, under the terms, conditions and scope described herein:**

### **1. OBJECTIVES**

The objective of this MoU is to define the roles, responsibilities, and commitments of the Parties for the installation, commissioning, and operation of a solar-powered battery swapping station for electric vehicles under the Resco model near the Energy Education Park in Chhattisgarh.

### **2. SCOPE OF WORK**

The scope of work under this MoU includes, but is not limited to:



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## **2.1 Roles of CREDA:**

- a. Facilitate the identification and allocation of the land near the Energy Education Park for setting up the battery swapping station.
- b. Provide the necessary administrative support and approvals for the installation of the project.
- c. Monitor and oversee the progress and ensure alignment with State energy goals.
- d. Assist in promoting awareness about the project and encourage usage of battery swapping infrastructure among e-vehicle users.

## **2.2 Roles of the Service Company:**

- a. Design, procure, and install the solar-powered battery swapping station infrastructure at the identified site.
- b. Ensure the battery swapping facility is equipped to cater to electric two-wheelers and auto-rickshaws.
- c. Operate, manage, and maintain the swapping station for efficient functionality, including real-time monitoring and reporting.
- d. Provide a user-friendly platform for battery swapping operations, including mobile application integration, payment gateways, and usage analytics.
- e. Ensure compliance with safety, environmental, and operational standards, including the use of certified batteries and fire safety protocols.
- f. Bear all the capital costs of the installation and commissioning of the facility under the RESCO model.
- g. Develop a standard operating procedure (SOP) for station operations, including battery charging schedules, battery health monitoring, and user assistance protocols.
- h. Provide trained personnel to manage and oversee the daily operations of the battery swapping station, including customer support for e-vehicle users.
- i. Ensure preventive and corrective maintenance of the infrastructure to ensure seamless operations.

## **2.3 Operational Procedures for Battery Swapping:**

- a. The station will provide fully charged batteries to e-vehicle users in exchange for their discharged batteries.
- b. A quick and efficient swapping process shall be ensured to minimize user downtime (target duration: under 5 to 10 minutes per swap).
- c. The swapping station shall include multiple battery slots for simultaneous charging of discharged batteries.
- d. A battery health management system shall be implemented to monitor the performance and condition of each battery in real time.
- e. Safety protocols, including fire prevention and emergency response systems, shall be adhered to strictly.
- f. The service company shall ensure an adequate inventory of charged batteries to meet the expected demand during peak hours.

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### 3. COST AND FUNDING

4. Under the RESCO Model, the Service Company shall bear the full cost of the design, procurement, installation, and commissioning of the solar-powered battery swapping station.
5. The indicative cost of installation shall include but not be limited to:
  - a. **Solar Power Infrastructure:** Solar PV panels, inverters, battery storage systems, and grid connection.
  - b. **Battery Swapping Station Setup:** Swapping kiosks, battery slots, charging points, and control systems.
  - c. **Battery Procurement:** Purchase of certified batteries compatible with the target electric vehicles.
  - d. **Software and Monitoring:** Deployment of software for user interface, battery tracking, and payment systems.
  - e. **Safety and Security:** Fire safety systems, CCTV surveillance, and physical security measures.
6. Estimated **Operational Costs** to be borne by the Service Company include:
  - a. Electricity charges (supplementary grid power, if required).
  - b. Maintenance of solar power infrastructure and swapping kiosks.
  - c. Salaries and wages of operational staff and technical personnel.
  - d. Battery maintenance and replacement.
  - e. User service platform maintenance and payment gateway charges.
  - f. Marketing and outreach activities to ensure station utilization.
7. CREDA shall not provide any direct financial assistance but will provide administrative and facilitative support as outlined under Section 2.1.

The Service Company may explore revenue generation opportunities through

- (a.) User fees for battery swapping.
- (b.) Subscription plans for regular users.
- (c.) Integration of advertisements and promotions at the swapping station premises.
- (d.) Carbon credits and incentives for promoting clean energy solutions.

### 4. OWNERSHIP AND OPERATION

3. The ownership of the solar-powered battery swapping station infrastructure shall vest with the Service Company during the operation period.

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4. The operation period under this agreement shall initially be for duration of \_\_\_ (e.g., **10**) years, renewable upon mutual agreement.

After the agreed operation period, CREDA shall have the right to take over the infrastructure, subject to mutually agreed terms and conditions.

## **5. RESPONSIBILITIES OF THE PARTIES**

### **5.1 CREDA:**

- Provide assistance in obtaining approvals, clearances, and support from local authorities where required.
- Support outreach programs to encourage adoption of electric vehicles.

### **5.2 Service Company:**

- Ensure timely completion of the installation of the project.
- Ensure uninterrupted operations of the swapping station.
- Provide periodic performance and maintenance reports to CREDA.
- Manage user education, customer support, and awareness programs to promote station usage.

## **6. MONITORING AND REPORTING**

3. A Joint Monitoring Committee (JMC) shall be formed, comprising representatives from both Parties, to monitor the progress, performance, and operation of the battery swapping station.
4. The Service Company shall submit quarterly progress and operational reports to CREDA.

## **7. TERM AND TERMINATION**

1. This MoU shall be valid for a period of \_\_\_ years from the date of signing, unless extended by mutual written consent.
2. Either Party may terminate this MoU by giving a written notice of **60 days**, specifying reasons for termination.
3. In case of breach of any terms or non-performance, the aggrieved Party may terminate the MoU after due notice and opportunity for resolution.

## **8. GENERAL TERMS**

1. This MoU is non-exclusive and does not prevent either Party from entering into similar agreements with other entities.
2. Both Parties agree to comply with all applicable laws, rules, and regulations.
3. Any amendments to this MoU shall be made in writing and signed by both Parties.

## **9. DISPUTE RESOLUTION**

In the event of any dispute arising out of or in connection with this MoU, the Parties shall endeavor to resolve the same amicably through mutual consultation. If unresolved, the matter shall be referred to arbitration as per the Arbitration and Conciliation Act, 1996.

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## 10. GOVERNING LAW

This MoU shall be governed by and construed in accordance with the laws of India, with jurisdiction at Raipur, Chhattisgarh.

The Parties have signed this Memorandum of Understanding in two original copies in English on the date indicated below:

For CREDA,  _____ <b>Name &amp; Designation of CREDA official</b> Date: _____	For (Service Company Name),  _____ <b>Name &amp; Designation of Service Company official</b> Date: _____
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**Witness:**

For CREDA

For (Service Company Name)

(1)

(1)

(2)

(2)

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**END**