



**CHENNAI PETROLEUM CORPORATION LIMITED**  
(A Government of India Enterprise and Group company of IOCL)

**Manali, Chennai - 600 068,  
Tamil Nadu, India.**

**CONTRACTS**

**TENDER DOCUMENT**

**FOR**

**PRE-FEASIBILITY STUDY FOR SUPPLY OF  
100 MW ROUND-THE-CLOCK (RTC)  
RENEWABLE ENERGY BY SETTING UP A  
COMBINATION OF WIND AND SOLAR  
POWER PLANTS FOR CPCL**

**Tender Document No.: CPCLV26038**

**TECHNO-COMMERCIAL BID (PART- A)**

## Annexure E

**Checklist for document / details to be submitted by Bidder**

- [ ] 1. EMD Instrument
  - a. Details of online transfer of EMD or UPI transaction details.
  - b. Udyam Registration Certificate for EMD exemption.
- [ ] 2. Documents in support of Experience Pre-Qualification Criteria stipulated in the tender document / NIT
- [ ] 3. Annual Turn-Over (ATO) (Profit and Loss Account and Balance Sheet) Document of last three previous years including networth details as mentioned in NIT.
- [ ] 4. Copy of Permanent Account Number (PAN) Card.
- [ ] 5. Income Tax Returns acknowledgement for last 3 years.
- [ ] **6. Valid legal Authorization document in favour of signatory to tender issued on or after publication of this tender**
- [ ] 7. Format A – Declaration of tender acceptance
- [ ] 8. Format B - Information about bidders
- [ ] 9. Format C - Schedule of deviation
- [ ] 10. Format D – Prequalification details submitted by bidder
- [ ] 11. Format E - Declaration for confidentiality clause w.r.t compliance with CPCL's insider trading code
- [ ] 12. Format F - Declaration for the purpose of Section 206AB & 206CCA of Income-tax Act, 1961
- [ ] 13. Format G - Compliance with the government order on procurement from bidders from countries sharing land border with India (with selection of applicable option)
- [ ] **14. Format H - Declaration of Local Content (with selection of applicable option)**

- [ ] 15. Format K - Declaration regarding submission of single bid
- [ ] **16. Appendix IIA - Declaration of Black Listing / Holiday Listing**
- [ ] 17. CPCL vendor code
  - a. If bidder is not having CPCL vendor, then following documents to be submitted
  - b. Copy of GST registration certificate
  - c. Format J Bank details
  - d. Certificate of incorporation
- [ ] 18. MSE bidder details (if applicable)

Top 3 documents not submitted / not submitted properly by bidders are marked above in **bold** leading raising of queries and delay in the tendering process

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## Chennai Petroleum Corporation Limited

(A Government of India Enterprise and Group company of IOCL)

### Notice Inviting Tender

#### M & C - Contracts

Bids are invited in Two-Bid System [Part-A Techno Commercial Part; and Part-B Priced Part on behalf of Chennai Petroleum Corporation Limited (CPCL) for subject work in the form of electronic mode.

1.	Tender website	<a href="https://cpcltenders.nic.in/">https://cpcltenders.nic.in/</a>
2.	Type of Bid	DOMESTIC BIDDING Two Bid System
3.	Tender No.	CPCLV26038
4.	Name of Work	Pre-Feasibility Study for Supply of 100 MW Round-the-Clock (RTC) Renewable Energy by setting up a combination of Wind and Solar Power Plants for CPCL
5.	Completion Schedule	10 (ten) Weeks from the date of issuance of FOA/LOA
6.	Tender download schedule	14 days as per CPCL E-Tender portal
7.	Pre-Bid Meeting	Date: 19.02.2026 (Thursday) Time: 11:00 AM (Through Microsoft Teams) Meeting ID: 482 444 122 889 94 Passcode: MR3VN6Xi
8.	Bid Submission	14 days as per CPCL E-Tender portal
9.	Techno-commercial Tender opening date	14 days as per CPCL E-Tender portal or at a later date / time convenient thereafter.
10.	Earnest Money Deposit (EMD)	₹ 30,000.00
11.	EMD exemption	Applicable to • Micro & Small Enterprises (MSE) having UDYAM registration certificate • Central Public Sector Enterprises
12.	Pre-qualification Criteria (PQC):	
12.1.	Bidder's audited annual financial turnover during any one of the preceding 3 (three) financial years viz. 2022-23, 2023-24 & 2024-25 be at least	₹ 18.00 lakhs

12.2.	Net worth for the last audited financial year (2024-25).	should not be negative.
12.3.	Similar nature of job is defined as	Bidder should have carried out advisory services/ feasibility assessments involving plant sizing with a cumulative capacity of at least 500 MW (including both Wind and Solar power, as part of combined or separate assignments, with or without Energy Storage Systems, during the last 10 (ten) years reckoned prior to 31.01.2026.
12.4.	Additional Technical Requirement	<p>The Intending tenderers / bidders / consultant shall furnish the following for pre-qualification and experience:</p> <p>A) Registration</p> <ol style="list-style-type: none"> <li>i. Bidder should be a public limited company / private limited company / limited liability partnership/ government organization / any organization with government stake / PSU / CPSU / Section 8 company/ industry chamber, in India.</li> <li>ii. Relevant documentary proof should be submitted.</li> </ol> <p>B) Annual Financial Turnover as per Sl.no.12.1 of NIT</p> <p>Note: In case the bidder is a subsidiary, branch office, or Indian entity of a parent company/group, the consolidated turnover of the parent company/group may be considered for meeting the above turnover criterion, provided that:</p> <ul style="list-style-type: none"> <li>• The parent company holds majority ownership/control in the bidding entity. A Letter of Undertaking / Corporate Guarantee / Letter of Support from the parent company is submitted, confirming its financial backing and support for execution of the assignment.</li> </ul>
12.5.	Nature of job	Non-ARC (Annual Rate Contract)
13.	Other documentation requirements	<ul style="list-style-type: none"> <li>• PAN card</li> <li>• Certificate of Incorporation/ Partnership deed/ Proprietor ship affidavit.</li> <li>• Power of Attorney in favour of person authorized to submit the bid.</li> <li>• GST Registration Certificate</li> </ul>

13.1.	Tender Inviting Authority	Deputy General Manager (Contracts) CPCL, Manali, Chennai Phone: 044-2594 4000 (extn 2255) / 044-2594 4180 (direct) e-mail: kanagarajg@cpcl.co.in
13.2.	Alternate contact details	Phone: 044 - 2594 4022/ 044 - 2594 4000 (extn 2583) e-mail: pkannapan@cpcl.co.in  Phone: 044 - 2594 4249 / 044 - 2594 4000 (extn 2350) e-mail: avyshnavi@cpcl.co.in
14.	Integrity Pact Agreement	Not applicable
15.	Criticality of work	Critical
16.	PQ relaxation to startups	Not applicable
17.	Splitability	Not applicable
18.	Job category: (Service / Works contract)	Service Contract
19.	Reverse Auction	Not applicable
20.	Minimum Local Content required as per Make in India Policy	More than or equal to 20%  (Class I and Class II Local Bidders are eligible for participation)
21.	Purchase Preference Category	Not applicable
22.	Name of the Coordinator of the Grievance Redressal Cell:	Shri. V.Sriram Chief General Manager (HSE) Chennai Petroleum Corporation Limited 536, Anna Salai, Teynampet, Chennai-600 018 Telephone No: 044-25944209 / 044-25941047 e-mail id: vsriram@cpcl.co.in  For details, refer CI.No.3.1.13 of Special Conditions of contract for tendering
23.	Offer validity	6 months from the date of opening of bid
24.	Additional points	Tender is invited on NIL deviation basis. Hence, deviations are not allowed for this tender. Clarifications if any may please be sought by the bidder through contact details provided above before submission. Bidder shall submit

		duly signed and stamped NIL deviation declaration as per Page no. 3 of Formats (Format C: Schedule of deviation)
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Deputy General Manager (Contracts)

Notes:

- 1) Two bid system: Documents for Part-A for Techno-Commercial portion and Part-B for Price portion comprising of "Schedule of rates (or) bill of quantities (BOQ)" shall be uploaded tender website mentioned in the NIT within the due date and time of submission.
- 2) EMD:
  - a) Tenders without Earnest Money are liable to be rejected.
  - b) In all type of tenders, Central PSUs are exempted from submission of EMD. EMD exemption to Micro & Small Enterprises (MSE) bidders having valid Udyam Registration certificate is allowed only for Service contract and not for Works contract.
  - c) EMD in the form of Demand draft is **NOT ACCEPTABLE**.
  - d) EMD shall be submitted online by Indian bidders.
  - e) EMD shall be deposited through online transfer to CPCL A/c No.: 10130459267 of Chennai Petroleum Corporation Limited, State Bank of India, CAG branch, Chennai, IFSC: SBIN0009999 is acceptable.
  - f) EMD can also be paid to CPCL account using QR code or UPI as detailed below



- g) The Bidder shall specify the tender number in the subject text during the online / UPI transfer of the amount to CPCL account for co-relation.
- h) Further, the Bidder shall provide a letter to CPCL specifying the following details along with their bids.
- CPCL Tender/Enquiry No. ,
  - UTR number/RTGS / UPI transaction id,
  - Amount of EMD and
  - Date of Receipt / transaction
- i) Swift Transfer will be accepted only from foreign bidders.
- j) BG in prescribed format from a scheduled bank is acceptable provided EMD amount is not less than Rupees One Lac.
- k) The BG shall be issued by a Scheduled Commercial Bank located in India. BG issued by an International bank situated in India and registered with Reserve Bank of India is acceptable. BG issued by a Foreign Bank not situated in India shall be counter guaranteed by their branch in India or a scheduled commercial bank.
- l) Wherever applicable, scanned copy of EMD Bank guarantee should be uploaded along with offer and original of BG should reach to the office of tender issuing authority in sealed envelope super-scribing tender name, tender number, date of opening and bidder's name, preferably before the deadline of submission but not later than 7

(seven) days from tender opening date.

- m) CPCL is registered with NeSL (National e-Governance Services Ltd) platform for acceptance of e-BG and CPCL entity ID is AAACM4392C. Hence, e-BG is also acceptable and the guidelines as mentioned for physical BG is applicable for e-BG.
- n) Structured Financial Messaging System (SFMS) is a platform where details of BGs can be electronically transmitted by the issuing bank to another bank, which in turn would confirm to beneficiary on the issuance and genuineness of the BG. In case bidder opts to submit EMD in the form of BG, then the following shall be complied with:

In addition to receipt of the BGs directly by CPCL from the issuing bank, the bidder shall make a request to the BG issuing bank or branch to transmit the BG details through SFMS (MT 760) to the following CPCL banker and the beneficiary being

“Chennai Petroleum Corporation Limited”  
State Bank of India, Corporate Accounts Group Branch, Chennai, Tamilnadu.  
IFSC: SBIN0009999

The BG would be reckoned by CPCL only on formation of receipt of SFMS by CPCL branch, SBI CAG Branch, Chennai.

- o) Surety Insurance (Bid security bond) is also acceptable in place of Bank guarantee. The proforma is enclosed as format L.
- 3) Pre qualification – Financial criteria
- a) Bidder shall submit either Audited Annual Financial Turnover Report (Profit & Loss Statements and Balance Sheets) (or) a Certificate from Chartered Accountant with UDIN duly certifying the Audited Annual Financial Turnover of the company and Net Worth
  - b) ATO document must contain the Name, Signature and membership no. of Chartered Accountant. In case Audited certificates/ Balance Sheet/ Profit& Loss account statement are issued by any Auditor/Chartered Accountant then it should bear UDIN (Unique Document Identification Number) for such reports of FY 2022-23 onwards.
  - c) Net worth to be calculated based on: Reserve + Capital – Loss
- 4) Pre-qualification –Experience Criteria:
- a) Bidders shall submit documents as per NIT Sl.no.12.1, 12.2, 12.3, 12.4 and QCBS evaluation parameter for evaluation purpose.
- 5) Power of Attorney in favour of person authorized to submit the bid.
- a) In case of Proprietary Concern – Duly notarised affidavit to be submitted
  - b) If the bid is submitted by person other than proprietor, POA authorizing the person to submit bid on behalf of the concern
  - c) In case of Company – Certified copy of Board Resolution authorizing the person submitting the bid on behalf of the company
  - d) In case of Partnership Firm / LLP POA along with Deed of Partnership / LLP Agreement
  - e) In case of Co- Operative Society-Copy of resolution passed as per Society Rules

## 6) General:

- a) Offer from following types of bidder will not be accepted
  - i) Who are in the Holiday / Negative list of CPCL or its Administrative Ministry, MoPNG.
  - ii) Who are under liquidation, court receivership or similar proceedings.
  - iii) Consultant or their subsidiary Company or companies under the management of consultant for execution of the same project for which they are working as consultant.
  - iv) Bidder(s) who are undergoing insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code).
  - v) Bidder(s) whose insolvency resolution process or liquidation or bankruptcy proceeding is initiated under the Code at any stage of evaluation of the bid.”
  - vi) Offer from Joint Bidders / Consortium will not be acceptable unless stated otherwise elsewhere in the tender document.
- b) The offers with incomplete /irrelevant documents or anomalies are liable to be rejected without any communication. Hence, bidders are advised to take utmost care while uploading their prequalification documents.
- c) Relevant supporting documents towards other requirements specified are also to be uploaded along with Techno- commercial bid failing which bid is liable for rejection.
- d) Submission of authentic documents is the prime responsibility of the bidder. Wherever CPCL has concern or apprehension regarding the authenticity/ correctness of any document, CPCL reserves the right to get the documents verified from issuing authority/any relevant source. If documents (part or full) are found forged, such offers will be summarily rejected and EMD will be forfeited and may be debarred from future tenders.
- e) Bidders are to quote their most competitive rates. Negotiations will not be conducted with the bidders as a matter of routine. However, Owner reserves the right to conduct negotiations.
- f) In case, any bidder or a foreign bidder submits any of the Pre Qualification supporting documents in any language other than English, then it will be the responsibility of such foreign bidder to also provide the English translation copy of the same duly certified, stamped and signed by their Local Chamber of Commerce/ Notary.
- g) Any Addendum/Corrigendum/Sale date extension in respect of above Tender shall be issued on tender website only and no separate notification shall be issued in the press. Bidders are therefore requested to regularly visit tender website to keep themselves updated. Failure of Bidder to submit tender without taking cognizance of Corrigendum / Amendment (if any) issued by CPCL shall make bid liable for rejection.
- h) Bidder cannot make any claim against CPCL towards its expense incurred in connection with the preparation and delivery of their bids, site visit, participating in the discussion and other expenses incurred during bidding process.
- i) Canvassing in any form by the bidder himself or by any other agency on their behalf may lead to disqualification of their bid.
- j) Submission of tender document by itself shall not amount to pre-qualification or entitle

the agency to participate in the bidding

- k) CPCL reserves the right to reject any or all of the tenders or any parts of the tender so received and may cancel the tender in part or full, extend the due date of Tender submission etc. without assigning any reason.
- l) CPCL reserves the right to complete the evaluation based on the details furnished by the bidder, with or without seeking any additional supporting documents / clarifications.
- m) Legal dispute, if any, shall only be within the jurisdiction of Local Court unless mentioned otherwise.

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**COMPLETION SCHEDULE**

<b>Name of Work</b>	<b>Completion time</b>
Pre-Feasibility Study for Supply of 100 MW Round-the-Clock (RTC) Renewable Energy by setting up a combination of Wind and Solar Power Plants for CPCL	10 (ten) Weeks from the date of issuance of FOA/LOA

Refer to Special conditions of contract – Technical for further details

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**PAYMENT TERMS**

Payment will be made against the work done based on accepted rates in the contract, in the terms and manner as described below:

- 60% shall be paid on submission of draft report.
- 40% shall be paid on submission of final report.

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### **Evaluation methodology for QCBS**

The bids conforming to the specified Pre-Qualification Criteria, terms and conditions stipulated in the bidding document will be considered for further evaluation as given below:

Bids shall be further evaluated both in terms of 'Quality' as well as 'Quoted Price' i.e., Quality & Cost Based Selection (QCBS) methodology. The weightage for the 'Quality' is 70 and the weightage for the 'Quoted' price is 30.

The Technical score shall be calculated as per the following criteria:

#### **Computation Table:**

<b>S.No</b>	<b>Evaluation Parameter</b>	<b>Marks</b>
i	Number of Renewable Energy Strategy / Feasibility / Advisory studies/services, each with a total capacity of 100 MW or above (including both Wind and Solar energy plants with or without Energy Storage Systems, during the last 10 (ten) years reckoned prior to 31.01.2026)	<b>Max.20 Marks</b>
	a) No. of Study - 1	6
	b) No. of Studies - 2	12
	c) Greater than 2 studies	18
	d) Additional marks for having at least 1 Feasibility Study in Tamil Nadu	2
ii	Cumulative Capacity of Renewable Energy Strategy / Feasibility / Advisory studies/services), each with a total capacity of 100 MW or above (including both Wind and Solar energy plants with or without Energy Storage Systems, during the last 10 (ten) years reckoned prior to 31.01.2026)	<b>Max.20 Marks</b>
	a) Up to 1GW	6
	b) 1-2 GW	12
	c) More than 2 GW	18
	d) Additional marks for Cumulative Capacity of Project of 200MW in Tamil Nadu	2

iii	No. Of consultancy projects involving RE demand-supply matching/analysis, RE sizing along with LCOE optimization using 8760 profile energy balancing	<b>Max.10 Marks</b>
	a) One Project	5
	b) Two or more Projects	10
iv	Business Presentation	<b>Max.50 Marks</b>
	a) Understanding the Scope of Work: Bidders' demonstrated level of understanding of the scope of work, deliverables and overall objective of the Project. Knowledge about CPCL's current state and possibilities	10
	b) Demonstration of Tools & Accelerators to be deployed for assessing the plant capacity and optimizing the cost.	20
	c) Detailed case study presentation related to Renewable Energy Strategy / Feasibility / Advisory studies/services (Combination of Wind & Solar with or without ESS)	20
	<b>Total</b>	<b>100 Marks</b>

**Note:** If the bidder cites prior experience in terms of RE RTC without explicitly indicating the installed capacity, a Capacity Utilization Factor (CUF) of 25% shall be considered for determining the corresponding installed capacity.

An Evaluated Bid Score (B) will be calculated for each bid using the following formula:

$$B = \frac{C \text{ low}}{C} \times 100 \times X + \frac{T}{T \text{ high}} \times 100 \times Y$$

where,

C = Price quoted by the bidder under evaluation

C low = The lowest of the bid prices among the qualified bids

T = The total marks obtained by the bidder against "Quality" criteria

T high = The highest mark scored against "Quality" criteria among the qualified bids

X = 0.3 (The weightage for "Quoted price" is 30 %); Y = 0.7 (The weightage for "Quality" is 70 %)

Note: The Evaluated Bid Score (B) shall be considered up to two decimal places.

**H1 Bidder:**

The contract shall be awarded to the bidder with the highest combined score (H1) calculated using the above formula (Combined Score).

- In the event two or more bidders have the same combined scores, the proposal with the higher technical score shall be ranked first.
- In case of identical combined & technical scores, party scoring higher in the Business Presentation shall be given precedence.

**Note:**

- i. Against a particular quality criterion if a qualified bidder does not have the requisite minimum criteria indicated in the table above, zero marks shall be assigned for that criterion.
- ii. A bidder should mandatorily score 70 out of 100 marks in Technical (quality parameters) in order to qualify for financial bid opening.
- iii. Joint bids by consortium of parties shall not be considered.
- iv. In case of Partnership Firms, the bid shall be submitted only in the name of the partnership firm, and all partners shall be jointly and severally liable, as per the partnership deed.

**Other Conditions:**

1. The tender is floated as an 'Item-rate' tender.
2. The bids shall be evaluated on inclusive of GST basis.
3. Bidder shall quote their rate for item given at Schedule of Rates / Bill of Quantities, as per the scope of work and other terms & conditions stipulated in the tender.
4. Bidder shall indicate the applicable percentage of GST in their technical offer.
5. Payments based on the agreed rates will be made at applicable percentage of GST, at actuals, during execution of the contract.
6. The quantity in this tender is not Splitable.
7. MSE and MII purchase preference is not applicable for this tender.

### **List of acceptable documents for PQC Evaluation through QCBS Methodology**

Bidders shall submit copies of work orders along with the corresponding completion certificates in support of fulfilling the respective criteria.

i) Against PQC & S.No. (i, ii and iii) of computation table:

- If the bidder possesses the requisite experience as part of a larger contract executed under a different project name, the same shall be considered, subject to submission of relevant documentary evidence. Bidders shall submit copies of both the work order(s) and the completion certificate(s) in support of meeting the eligibility criteria.
- In the absence of such completion certificates, email confirmation or written communication from the authorized signatory of the client with relevant contact details may be submitted as proof.
- Documentary evidence certified by the CEO / Head of bidding entity/ CFO/Authorized Signatory of the bidding organization to be submitted.
- Running Contract will not be considered. However, Assignment completed as part of a larger running contract will be considered, only if supported by relevant proof of completion of such deliverable

ii) Against S.No. (iv) of computation table:

- Bidders shall prepare and present their proposal before a committee of CPCL for evaluation at the stipulate date. Five no. of Hard copies of business presentation to be submitted on the date of presentation.
- Bidders will be intimated about the date of presentation with seven days prior notice.

**Note:** In case a bidder expresses its inability to submit completion certificate / email confirmation / written communication from the client in support of meeting the experience criteria mentioned in the QCBS table, the following documents should be submitted:

- a. Work Order / Purchase Order (PO)/Scope for the cited work
- b. Payment receipts, along with copies of the corresponding invoices
- c. Self-certification by the CEO / CFO of the company / Head of bidding entity / authorized signatory of the bidding entity indicating completion of the cited work experience
- d. Any other supporting document deemed necessary to clearly bring out the description of work, including the capacity for which the study was undertaken.
- e. Documents shall be verified only for the projects mentioned/described in the attached TEC Annexures.

**Advisory services/ feasibility assessments involving plant sizing with a cumulative capacity of at least 500 MW (including both Wind and Solar power, as part of combined or separate assignments, with or without Energy Storage Systems, during the last 10 (ten) years reckoned prior to 31.01.2026)**

Sl. No.	Client Name	Details of Work – Feasibility assessment of Wind-Solar RE projects (with/without ESS) with cumulative installed capacity $\geq$ 500 MW in the last 10 years.	Start Date	End Date	Work Order Value (INR Lakhs)	Nature of the client however not limited to:  (Oil & Gas / Refinery / Petrochemical / Fertilizer / Power Generation / Steel / Cement / Metals / Mining /Chemicals)
1						
2						
3						

(Seal & Signature)

Name of Authorized signatory:

Designation:

Instruction to Bidders:

1. The details in the above format shall be the same as per the work order / Completion Certificate issued by the client to the bidder
2. In case the value of work executed is in foreign currencies, the same shall be converted to INR based on the conversion rate as per Reserve bank of India prevailing on the last day of the financial year in which the project was completed.

**Feasibility Assessment of RE Projects – Combination Of Wind & Solar with/without ESS: Number of Wind-Solar Feasibility Studies (Evaluation criteria (i))**

Sl. No.	Client Name	Details of Work – Renewable Energy Strategy / Feasibility / Advisory studies/services, each with a total capacity of 100 MW or above (including both Wind and Solar energy plants with or without Energy Storage Systems, during the last 10 (ten) years reckoned prior to 31.01.2026)	Start Date	End Date	Work Order Value (INR Lakhs)	Nature of the client however not limited to: (Oil & Gas / Refinery / Petrochemical / Fertilizer / Power Generation / Steel / Cement / Metals / Mining /Chemicals)	Location of the RE plant for which feasibility was carried out
1							
2							
3							

(Seal & Signature)

Name of Authorized signatory:

Designation:

Instruction to Bidders:

1. The details in the above format shall be the same as per the work order / Completion Certificate issued by the client to the bidder
2. In case the value of work executed is in foreign currencies, the same shall be converted to INR based on the conversion rate as per Reserve bank of India prevailing on the last day of the financial year in which the project was completed.

**Feasibility Assessment of RE Projects – Combination of Wind & Solar with/without ESS: Cumulative capacity of renewable energy projects. (Evaluation criteria (ii))**

Sl. No.	Client Name	Details of Work - Renewable Energy Strategy / Feasibility / Advisory studies/services), each with a total capacity of 100 MW or above (including both Wind and Solar energy plants with or without Energy Storage Systems, during the last 10 (ten) years reckoned prior to 31.01.2026)	Start Date	End Date	Work Order Value (INR Lakhs)	Nature of the client however not limited to: (Oil & Gas / Refinery / Petrochemical / Fertilizer / Power Generation / Steel / Cement / Metals / Mining /Chemicals)	Location of the RE plant for which feasibility was carried out
1							
2							
3							

(Seal & Signature)

Name of Authorized signatory:

Designation:

Instruction to Bidders:

The details in the above format shall be the same as per the work order / Completion Certificate issued by the client to the bidder

1. In case the value of work executed is in foreign currencies, the same shall be converted to INR based on the conversion rate as per Reserve bank of India prevailing on the last day of the financial year in which the project was completed.

**Feasibility Assessment of RE Projects – Combination of Wind & Solar with/without ESS: Consultancy projects on RE sizing and LCOE optimization. (Evaluation criteria (iii))**

Sl. No.	Client Name	Details of RE consultancy projects	Start Date	End Date	Work Order Value (INR Lakhs)	Inclusion of demand-supply analysis, sizing, & LCOE optimization using 8760 profiles (Yes/No)
1						
2						
3						

(Seal & Signature)

Name of Authorized signatory:

Designation:

Instruction to Bidders:

1. The details in the above format shall be the same as per the work order / Completion Certificate issued by the client to the bidder
2. In case the value of work executed is in foreign currencies, the same shall be converted to INR based on the conversion rate as per Reserve bank of India prevailing on the last day of the financial year in which the project was completed.



## ***Chennai Petroleum Corporation Limited***

*(A Government of India Enterprise and a Group Company of Indian Oil)*

### **SCOPE OF WORK**

**Pre-Feasibility Study - Supply of 100 MW RTC Renewable Power  
by Setting up a Combination of Wind and Solar Power Plants**

**CHENNAI PETROLEUM CORPORATION LTD. (CPCL)  
MANALI, CHENNAI**

**Brief Scope of Work:**

To carry out the Pre-Feasibility Study for supply of 100 MW Round-the-Clock (RTC) renewable power by setting up a combination of wind and solar power plants, including evaluation of suitable business models (Captive / Group Captive / JV mode), with Phase-1 covering 50 MW RTC and the remaining 50 MW RTC in Phase-2.

**Background of the work:**

Chennai Petroleum Corporation Limited (CPCL), is a group Company of Indian Oil and a major public-sector refining company, operates one of the most complex refineries with a capacity of 10.5 MMTPA, producing a wide range of value-added petroleum products. To meet its net-zero targets, as part of its sustainability initiatives, and to reduce fuel consumption, system losses, and overall energy costs, CPCL is planning to set up a hybrid renewable energy plant comprising both solar and wind power, enabling the refinery to meet its Round-the-Clock (RTC) power requirements.

To move forward with this initiative, CPCL needs to assess the feasibility of establishing this renewable energy plant.

For carrying out the Pre-feasibility study, detailed analysis, and subsequent consultancy support for further activities, engaging a reputed, experienced and technically strong consultant in the relevant renewable energy domain is essential.

**CPCL current RE assets:****Solar:**

- CPCL's current installed solar capacity comprises of 2.3 MW of rooftop and ground-mounted solar and 1.1 MW of floating solar.

**Wind:**

- CPCL had installed 22 Nos of each 800KW capacity Enercon make, E-48 type Wind Energy Generators at Pushpattur village near Udumalpet, Dindigul Dist in 2007.
- The total average power generation per year is around 23 to 27 million Units

**Main objectives:**

The objective of this tender is to select reputed consultants to support CPCL in preparing a Pre-Feasibility Report for the supply of 100 MW RTC renewable power by setting up a combination of Wind and Solar Power Plants - covering 50 MW RTC in Phase-1 and the remaining 50 MW RTC in Phase-2—along with evaluating the feasibility of implementing the project under captive, group-captive, or JV mode, including detailed cost estimation and financial analysis. The study shall also provide a list of capable developers/vendors with proven experience in executing combined wind & solar projects, including land procurement under their scope, aligned to the most suitable business model identified in the study.

**Scope of work includes:**

The consultant shall carry out a comprehensive pre-feasibility study covering the following:

**I. Assessment of Power Demand and Consumption Pattern**

- Understanding power requirement at various CPCL installations - Validating the power requirement assessment provided by CPCL team
- Assess the current & future demand across CPCL facilities.
- Carry out analysis of the existing power requirement including Captive Power Plant (CPP) (if any), DISCOMs and renewable energy assets across plant locations. This will help establish the following:
  - The sanctioned demand, contract demand, billed demand, Time Of Day (TOD) consumption pattern, load factor, power factor incentive, voltage connection etc.
  - Pricing from different sources
  - Renewable power obligations (RPO) from current open access/ captive sources
  - Reliability of electricity
  - Peak demand
  - Net demand for RE in select CPCL facilities
- Map load patterns to understand demand cyclicality.
- Identify Key operational constraints, including critical loads, seasonal variations & shift operations.

**II. Regulatory and Policy Assessment for Renewable Energy Development**

- Review central and Tamil Nadu regulations related to captive renewable energy projects, including but not limited to, Electricity Act 2003, Electricity Rules 2005 (read with latest amendments), Green Energy Open Access Regulation of Central and State (Tamil Nadu) Governments and other relevant Central and State specific Laws / Regulations that are of consequence to the objective of the study
- Analyze Open Access (OA) norms (either existing or proposed), capacity restrictions, banking provisions, eligibility criteria and its impact on CPCL's status of registration as a Generator or Consumer with SLDC.
- Examine central and state-level incentives and policy benefits for renewable project implementation.
- Evaluate commercial framework including various charges such as transmission/wheeling, CSS, AS, ISTS, STU charges, contract demand charges etc.

**III. Renewable Energy Technology Configuration and Capacity Planning (100 MW RTC: 50 MW RTC in Phase-1 + 50 MW RTC in Phase-2)**

- Assess the technical feasibility of supplying 50MW RTC by setting up a combination of wind & solar power projects with / without necessary energy storage system arrangements to ensure round-the-clock (RTC) for supply of 50 MW RTC in Phase-1 & extend the study to evaluate the feasibility of an additional 50 MW RTC in Phase-2.
- Develop and compare generation curves for the proposed renewable energy mix (solar and wind), with and without Energy Storage Systems (ESS), for both Phase-1 (50 MW RTC) and Phase-2 (additional 50 MW RTC).
- Determine the optimal capacity configuration and technology mix—comprising solar, wind, and, where required, energy storage systems (ESS)—to reliably and cost-effectively meet the initial 50 MW RTC demand and the subsequent additional 50 MW RTC in Phase-2. The assessment shall consider scenarios with and without ESS, including indicative ESS sizing (where applicable), economic analysis and evaluation of advanced and latest renewable energy technologies to maximise renewable energy contribution. The assumptions considered for Phase-2, envisaged five years from now, shall be clearly specified and documented.
- Estimate the landed cost of energy for the Phase-1: 50 MW RTC requirement and conduct sensitivity analyses, extending the financial evaluation to the Phase-2: additional 50 MW RTC capacity.

#### **IV. Assessment Of Business models**

- Evaluate and recommend the most suitable business model—captive or group captive, or JV arrangement.
- Determine the appropriate entity structure by considering key factors such as land availability, past implementation experience, required investment scale and ease of regulatory compliance.

#### **V. Cost estimation and Financial Analysis**

- Vendor to provide the cost estimation along with landed cost of renewable energy per unit basis at CPCL, Manali, considering all types of charges, taxes, duties payable to DISCOM/ Govt. authority. Cost of connectivity to the state grid is to be included as part of the CAPEX. Cost estimation to be provided with an accuracy of +/- 10%. Develop an LCOE/DCOE model based on the Capacity Utilization Factor (CUF) considered, project parameters and technoeconomic inputs with an accuracy of +/- 10%. For each location considered, a range of CUF is to be considered and the corresponding LCOE/DCOE to be estimated.
- Impact of subsidies, financial assistance (if any) available from State and Central Governments to be considered.
- The project financials for all the above modes (captive or group captive or JV mode) to be estimated by the consultant for evaluating the project viability. Vendor must compare the options based on financial analysis, market risk, manageability and its suitability to CPCL. They must recommend the best possible outcome to CPCL based on analysis. Financial viability analysis shall include details of IRR, NPV etc. The financial analysis should take into consideration the increase in

contract demand charges and other open access charges as well as fuel savings from the proposed change in operational philosophy of the captive generation plant for the 50 MW and 100 MW RE import scenario. CPCL will be providing the updated operational philosophy to the consultant

- Sensitivity analysis based on various critical factors like cost, time, inflation, generation etc to be done by the consultant.
- Develop a Project implementation Plan.
- Operating expenses for the selected technology to be estimated by the consultant.
- Develop an LCOE/DCOE model based on project parameters and techno-economic inputs with an accuracy of +/- 10%.
- Compare economics with group-captive and other alternatives, estimate CAPEX, operational savings, payback period, and IRR.

## **VI. Key Deliverables and Management Coordination**

- Prepare detailed reports, presentations, and documentation summarizing findings and recommendations on baseline assessment, regulatory & policy assessment, business model analysis, optimal sizing, cost estimation (with +/- 10% accuracy), and financial analysis.
- The consultant shall submit a detailed techno-economic and financial analysis report for the following defined solar-wind capacity combinations for meeting the RTC requirement: 100% Solar – 0% Wind, 90% Solar – 10% Wind, 80% Solar – 20% Wind, 70% Solar – 30% Wind, 60% Solar – 40% Wind, and 50% Solar – 50% Wind, 40% Solar – 60% Wind, 30% Solar – 70% Wind and 20% Solar – 80% Wind.

Note: For each of the above combinations, the analysis shall cover generation profile, RTC compliance, land requirement, CAPEX, OPEX, connectivity costs, landed cost of energy, LCOE/DCOE, IRR, NPV, sensitivity analysis, and overall financial viability, for Phase-1 (50 MW RTC) and indicative assessment for Phase-2 (additional 50 MW RTC), leading to recommendation of the most optimal mix.

- Support CPCL management in reviewing results, obtaining internal approvals, and finalizing the roadmap & RFP for subsequent project phases as required, within a mutually agreed period.
- The minimum solar irradiation and wind energy potential required for establishing an economically viable combination of wind and solar project shall be defined for engaging suitable vendors in the second stage as part of vendor onboarding for project implementation.
- Preparation of a list of prospective vendors based on the most suitable business model identified in the study along with their credentials, to substantiate that the shortlisted vendors have executed similar WSH projects with an expertise of land procurement under their scope and possess the necessary relevant experience.

- The list shall be submitted to CPCL for review and confirmation, ensuring that the shortlisted vendors are highly prospective, credible, and fully satisfactory in terms of technical capability, project experience, and overall suitability for the identified business model.

**Indicative Time Frame:**

The study is proposed to be completed within 10 weeks from the issuance of FoA. The Draft Report shall be submitted by Week 7. After review and comments from CPCL within two weeks, the Final Report shall be submitted by Week 10.

The consultant shall ensure the availability of key team members on-site as required for data collection, site visits, and stakeholder interactions. The consultant shall also conduct regular review meetings (frequency to be agreed, e.g., weekly/bi-weekly/monthly) with the client to discuss progress, key findings, and any issues encountered during the study.

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**Schedule of Rates**

Service Required for Plant: 9910 ,CPCL-Manali Refinery

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O.Lev.	Item No	Unit	Rate	Amount
Sr.No.	Item Description			

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RFQ ITEM NO.00010 PFR Study- supply of 100MW RTC

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	PFR study - Supply of 100MW RTC				

Note : GST rate at 18% is considered in BOQ.

**Item Rate BoQ**

Tender Inviting Authority: DGM (Contracts)

Validate

Print

Help

Name of Work: Pre-Feasibility Study for Supply of 100 MW Round-the-Clock (RTC) Renewable Energy by setting up a combination of Wind and Solar Power Plants for CPCL

Tender No: CPCLV26038

Bidder Name :

**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

**GST rate considered is 18%**

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P.	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
10	Pre-Feasibility Study for Supply of 100 MW Round-the-Clock (RTC) Renewable Energy by setting up a combination of Wind and Solar Power Plants for CPCL	100	S		0.00	0.00	INR Zero Only
<b>Total in Figures</b>					<b>0.00</b>	<b>0.00</b>	INR Zero Only

**TO BE QUOTED IN PRICE BID (PART-B) ONLY**