ENERGY FOR EVER

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(A Navratna CPSE)

INDIAN RENEWABLE ENERGY DEVELOPMENT AGENCY LTD.

(A Government of India Enterprise)

REQUEST FOR PROPOSAL (RFP)

(ONLY THROUGH ONLINE MODE)

Invitation of Proposals for Lender's Independent Engineers (LIE) for monitoring of IREDA funded Renewable Energy Projects

Date of issue of RFP	**05.11.2026; 1730 hrs. (IST)**
Last date for submission of Bid	**26.11.2026; 1730 hrs. (IST)**

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Dated: 05.11.2026

(1) NOTICE FOR INVITING PROPOSAL:

Sub: Invitation of Proposals for Lender's Independent Engineers (LIE) for monitoring of IREDA funded Renewable Energy Projects

Indian Renewable Energy Development Agency Limited (IREDA), a 'Navratna', Government of India Enterprise under the administrative control of Ministry of New and Renewable Energy (MNRE), invites online proposals for **Empanelment of Lender's Independent Engineers (LIE) for monitoring of IREDA funded Renewable Energy Projects** for the following Renewable Energy technologies;

(1.1) Technologies/ Sectors Covered:

1. *Wind*
2. *Ground Mounted Solar and floating Solar*
3. *Hybrid (Wind & Solar)*
4. *Solar Roof Top/ Off – grid solar*
5. *Hydro*
6. *Bio-Gas / CBG*
7. *Biomass / Bagasse co-gen /Waste to Energy, EEC*
8. *Bio Ethanol*
9. *BESS*
10. *Solar Manufacturing (Poly Silicon to Module)*
11. *Electric Mobility Segment*
12. *Smart Metering*
13. *Green Hydrogen and Derivatives production*
14. *Electrolyser Manufacturing*
15. *PM-KUSUM*

Additionally, for each technology/ sector, the empanelment will be further categorised based on size of the projects as given below:

(1.2) Technology wise Project Capacity Categorization:

Sl. no.	Technology	Category specific capacity		
		Small	Medium	Large
1.	Wind	Up to 25 MW	Above 25 MW & Up to 100 MW	Above 100 MW
2.	Ground Mounted Solar and Floating Solar	Up to 25 MW	Above 25 MW & Up to 100 MW	Above 100 MW
3.	Hybrid (Solar & Wind)	Up to 25 MW	Above 25 MW & Up to 100 MW	Above 100 MW
4.	Solar Roof Top/ Off – grid solar	Up to 10 MW	Above 10 MW & Up to 50 MW	Above 50 MW
5.	Hydro	Up to 10 MW	Above 10 MW & up to 25 MW	Above 25 MW
6.	Bio Gas / CBG	Up to 10 TPD	Above 10TPD	Above 20TPD
7.	Biomass Power /Bagasse co-gen /Waste to Energy, EE	Up to 10 MW	Above 10 MW & Up to 30 MW	Above 30 MW
8.	Bio Ethanol	Up to 100 KLPD	Above 100 KLPD & Up to 250 KLPD	Above 250 KLPD
9.	BESS	Up to 10 MW	Above 10 MW & Up to 50 MW	Above 50 MW
10.	Solar Manufacturing (Poly Silicon to Module)	Up to 1500 MWp	Above 1500 MWp & Up to 3000 MWp	Above 3000 MWp
11.	PM-KUSUM	Up to 10 nos. of locations (as per sanction)	Up to 30 nos. of locations (as per sanction)	Up to 50 nos. of locations (as per sanction)
12.	Electric Mobility Segment *(including manufacturing, as applicable)*			
a.	Two-wheeler/ three-wheeler/ charging infra/ battery swapping	Loan amount Up to 50 Cr.	Loan amount more than 50 Cr. up to 100 Cr.	Loan amount more than 100 Cr.
b.	Four Wheelers/ Buses and other heavy vehicles	Loan amount Up to 100 Cr.	Loan amount more than 100 Cr. up to 250 Cr.	Loan amount More than 250 Cr.
13.	Smart Metering (*including manufacturing, as applicable)*	Any Capacity		
14.	Green hydrogen and derivatives production *(including manufacturing, as applicable)*	Any Capacity		
15.	Electrolyser manufacturing	Any Capacity		

Note: *In case of hybrid projects, the LIE will be appointed based on technology which has higher capacity in the hybrid project.*

The bidder can apply for any combination of technology and category, subject to the Bidder meeting the minimum eligibility criteria for that technology as described in this document.

The empanelment of LIE shall be done on the basis of fulfilling the eligibility criteria and receipt of Bid Submission Letter as mentioned in **Annexure -1** along with all other Annexures in this notice and final acceptance by IREDA

If you are fulfilling the empanelment criteria and accepting the Scope of Services, Fee Structure, Terms and Conditions etc., you are requested to submit the signed copy of the RFP (to be signed in all the pages), including Bid Submission Letter and other details as per annexures attached, to IREDA Ltd. through online mode by forwarding all documents at the email **id: lie_empanelment@ireda.in** , while also mentioning in the subject '**Application for Empanelment of Lender's Independent Engineers (LIE) for monitoring of IREDA funded Renewable Energy Projects**', within **21 days** from the date of this notice. Please note that, the document to be submitted by the bidder shall be **Password protected**. **The password will not be shared by the bidder until asked through email or via VC by IREDA. Any document received without password protection will be considered ineligible and the application will be outrightly rejected. The password submitted along with the proposal itself or shared without IREDA consent will also make the proposal ineligible for consideration.**

Further, empanelment does not give rights to the Applicants for being appointed as LIE. IREDA reserves the right for appointment of LIE at its sole discretion from the empaneled list of LIEs for a particular project for providing services as per given scope of services.

IREDA Ltd. shall have the right to accept/ reject any of the Application(s) without assigning any reason whatsoever it may be.

Thanking you,

Yours faithfully,

for INDIAN RENEWABLE ENERGY DEVELOPMENT AGENCY LIMITED

(Kaveri Mallik)
Senior Manager (Projects – R&M Division)

Indian Renewable Energy Development Agency Ltd.
IREDA Business Centre
7th Floor, Plate B, Office Block No. II,
NBCC Office Complex, East Kidwai Nagar, New Delhi - 110023
Url: www.ireda.in

Annexure - 1

(2) Bid Submission Letter:

(Signed and scanned copy of document to be furnished by the bidder on the company letter head)

To,

Chairman & Managing Director
Indian Renewable Energy Development Agency Limited
India Habitat Centre, East Court,
Core-4A, 1st Floor, Lodhi Road, New Delhi - 11 00 03
Url: www.ireda.in

Sub: Application for Empanelment of Lender's Independent Engineers (LIE) - Ref No. RfP-IREDA/ REN/ Emp/LIE/2026

Sir,

(2.1) Bidder's Information:

Details of the Bidder		
1.	Name of the Bidder (Lead)	
2.	Technology & Category Applied	As per Bid Proposal Sheet (Form-4)
3.	Full Address of the Bidder along with email, mobile contact number	
4.	Name of the authorized person, contact details, email id, phone, mobile no. etc.	
5.	Contact details of organisation's Head (MD/CEO) like email id, phone etc.	
6.	Status of the Company (Public Ltd/ Pvt. Ltd/LLP/LLC)	
7.	Date of Incorporation of the Company/Commencement of Business	
8.	Valid GST (Goods & Service tax) registration no.	
9.	Permanent Account Number (PAN)	
10.	MSME Registration Certificate (Agencies under MSME falling under SC/ST category should combine both MSME registration certificate and SC/ST certificate in one sheet and scanned copy of the same should be uploaded)	
11.	Name & Designation of the contact person to whom all references shall be made regarding this bid	
12.	Telephone No. (with STD Code), mobile number	
13.	E-Mail of the contact person:	
14.	Fax No. (with STD Code)	
15.	Website	

Note: Relevant documentary evidence duly signed by the authorised signatory and stamped, to be provided in support of the information at Sl. No 6,7,8,9 and 10.

(2.2) Bidder's Profile:

Bidder's Organization (Description should be limited to 2500 characters)

Provide here a brief description of the background and organization of your firm/company including ownership details, date and place of incorporation of the company/firm, objectives of the company/firm etc.

Further, I/We hereby submit the following documentary proof in support of meeting us the empanelment criteria

(2.3) List of Documents/ Annextures (To be duly signed by signatory authority):

(i) Bid Submission Form (Annexure -1)
(ii) Eligibility Criteria (Annexure – 2)
(iii) General Scope of Work (Annexure – 3)
(iv) Fee Structure (Annexure - 4)
(v) Broad Terms & Conditions of IREDA (Annexure - 5)
(vi) Letter of Confirmations / Undertakings (Annexure - 6)
(vii) Other Terms & Conditions (Annexure - 7)
(viii) Qualifying Criteria for Bidding Entity (Annexure – 8)
(ix) General & Technology Specific Qualifying Criteria (Form – 1 & Form – 2)
(x) Format for Resume (Form – 3)
(xi) Declaration for no Conflict of Interest (to be submitted in case of appointment as LIE) (Annexure – 9)
(xii) Integrity Pact (Annexure – 10)
(xiii) Authorized letter for signatory authority (Annexure – 11)

I/We also understand that in case of not meeting the eligibility criteria (as per Annexure 2), or unconditionally not accepting to any of the conditions mentioned in this Application document, shall lead us to not be eligible for empanelment as Lenders' Independent Engineer.

I/We also understand that IREDA reserves the right to accept/ reject any Application without assigning any explanation or reason and such decision of IREDA Ltd. shall be final and binding on the Applicant.

Note: RFP document, including all the Annexures shall be duly signed by the signatory authority. However, in case of Project Specific Scope of Work, (Annexure – 3, point 5.2), only relevant portion of sectoral scope of work for which empanelment is sought is to be signed.

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Annexure - 2

(3) Eligibility Criteria:

Bidders, who propose to bid for empanelment as LIE with IREDA, will need to meet the below mentioned criterion for each category, on their own merit.

(3.1) Pre-requisite:

The Bidder should possess the requisite experience, resources and capabilities in providing the services necessary to meet the requirements, as described in the Bid document. The Bid must be complete in all respects and should cover the entire scope of work as stipulated in the document. Bidders not meeting the Eligibility Criteria will not be considered for further evaluation.

(3.2) Pre-bid alliance

1. Eligible bidders may bid on independent basis, if they meet all criteria at A-1, A2 (S, M, L, Any) & A-3 (a to i) on their own.
2. Consortium of one Lead Partner and one or more specific Technology Support Partners is allowed. The consortium arrangement has to be formalized at pre-bid stage. Post- empanelment, sub-contracting of the assigned work will not be allowed in any case and will be liable for cancellation of empanelment.
3. One Lead Partner shall have only one Technology Support Partner for one technology. However, one lead partner will be allowed to have the same technology partner for different technologies.
4. One Technology Support Partner will not bid in alliance with more than one Lead Partner, with the sole exception of Central/ State/Public Sector /Government Bodies/agencies, subject to their qualifying the technology specific criteria.
5. In the event of alliance-bid, the Minimum Eligibility Criteria {Table A1 & A2(S, M, L, Any)} shall be exclusively applicable to the Lead Partner only. In such cases, technology specific criteria will be exclusively applied to the specific Technology Support Partner as per respective Tables {Table: A3 (a), A3 (b), A3(c), A3 (d), A3 (e), A3 (f), A3 (g), A3 (h), A3 (i)}, as applicable. The Minimum eligibility criterion as listed in A1 & A2 are to be met by the lead partner in totality. Similarly, Minimum eligibility criterion as listed in A3 are to be met by the Technology support partner in totality.
6. The Pre-bid alliance once submitted shall be permanent, until the tenure of empanelment. In the event of withdrawal of a Technology Support Partner for any reason, the particular alliance shall be considered as void and empanelment shall be automatically cancelled unless accepted by IREDA otherwise.

(3.3) Eligibility Criteria (Bidder propose to bid on single basis):

Bidders, who propose to bid on single basis (i.e. without pre-bid alliance with any technology support partner) shall be required to meet both criteria at A-1 & A2 (S, M, L, Any), depending upon specific size category and A3(a/b/c/d/e/f/g/h/i), depending upon specific technology category applied for, on their own merit.

(3.4) Eligibility for IIT & NIT:

Apart from the above indicated eligibility criteria, institutions like IIT & NIT are also eligible to apply for all the sectors. However, they required to have completed at least 2 assignments as LIE/ EPC/Project Consultant for respective renewable energy sector. Other eligibility criteria will not be applicable in such cases

Scanned copies of supporting documents mentioned below, duly signed by the authorised person, shall be submitted/uploaded

(4) Qualification Criteria:

(4.1) - A1: General Qualifying Criteria

Table: A1:

	General Qualifying Criteria for Bidder	*(refer Annexure -8, Form-1)*
	Criteria	**Document to be submitted**
1.	Profitable (Net Profit) during the last FY 2025-26	*Copy of Audited Annual Accounts. (income statement)*
2.	The Firm/Company operational after Legal incorporation in India for minimum of 3 years as on 31/03/2026	*Certificate of incorporation/ Commencement of Business.*
3.	GST Registration	*GST Number to be provided*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

(4.2) - A2. Category Specific Qualifying Criteria:

(4.2.1) - Small Category (Tables: A2-S):

a) Table: A2-S (Small Category except Electric Mobility segment):

	Category Specific Qualifying Criteria for Bidder – Small Category *(refer Annexure -8, Form-1)*	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 25 Lakhs	Copy of Audited Annual Accounts. (Income statements and balance sheets)
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 10 lakhs	*-same as above-*
3.	At least 5 Full Time Employees from technical field (with at least bachelor's degree in engineering/technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in Renewable Energy Projects– completed at least 5 assignments as LIE /LIE/ EPC/Project Consultant for capacity size > 1 MW, in past 3 years.	*Copy of Award Letter, Completion report/ certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

b) Table: A2-S (Small Category Electric Mobility segment, including manufacturing, as applicable):

	Category Specific Qualifying Criteria for Bidder – Small Category *(refer Annexure - 8, Form-1)*	
	Criteria	**Document to be submitted**
1	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 25 Lakhs	Copy of Audited Annual Accounts. (Income statements and balance sheets)
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 10 lakhs	*-same as above-*
3.	At least 5 Full Time Employees from technical field (with at least bachelor's degree in engineering/technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in monitoring of assets under retail Mobility/ Electric Mobility/ EV charging segment – completed at least 2 assignments as LIE/ EPC/ Project Consultant in past 3 years.	*Copy of Award Letter, Completion report/ certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

(4.2.2) - Medium Category (Tables: A2-M):

a) Table: A2-M (Medium Category except Electric Mobility segment)

	Category Specific Qualifying Criteria for Bidder – Medium Category *(refer Annexure - 8, Form-1)*	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 1 Crore	*Copy of Audited Annual Accounts. (income statements and balance sheets)*
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 50 lakhs	*-same as above-*
3.	At least 10 Full Time Employees from technical field (with at least bachelor's degree in engineering/ technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in Renewable Energy Projects – completed At least 5 assignments as LIE/ LIE/ EPC/Project Consultant for capacity size > 5 MW, in past 3 years.	*Copy of Award Letter, Completion report /certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

b) Table: A2-M (Medium Category Electric Mobility segment, including manufacturing, as applicable):

	Category Specific Qualifying Criteria for Bidder – Medium Category *(refer Annexure - 8, Form-1)*	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 1 Crore	*Copy of Audited Annual Accounts. (income statements and balance sheets)*
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 50 lakhs	*-same as above-*
3.	At least 10 Full Time Employees from technical field (with at least bachelor's degree in engineering/ technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in monitoring of assets under retail Mobility/ Electric Mobility/ EV charging segment – completed at least 3 assignments as LIE/ EPC/ Project Consultant in past 3 years.	*Copy of Award Letter, Completion report /certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

(4.2.3) - Large Category (Tables: A2-L)

a) Table: A2-L (Large Category for all projects except Electric Mobility segment)

	Category Specific Qualifying Criteria for Bidder – Large Category *(refer Annexure - 8, Form-1)*	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 5 Crore	*Copy of Audited Annual Accounts. (income statements and balance sheets)*
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 1 Crore	*-same as above-*
3.	At least 15 Full Time Employees from technical field (with at least bachelor's degree in engineering/technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in Renewable Energy Projects– completed at least 5 assignments as LIE/ LIE/ EPC/Project Consultant for capacity size > 20 MW, in past 3 years.	*Copy of Award Letter, Completion report /certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

b) Table: A2-L (Large Category Electric Mobility segment, including manufacturing, as applicable):

	Category Specific Qualifying Criteria for Bidder – Large Category *(refer Annexure - 8, Form-1)*	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 5 Crore	*Copy of Audited Annual Accounts. (income statements and balance sheets)*
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 1 Crore	*-same as above-*
3.	At least 15 Full Time Employees from technical field (with at least bachelor's degree in engineering/technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in monitoring of assets under retail Mobility/ Electric Mobility/ EV charging segment – completed at least 4 assignments as LIE/ EPC/ Project Consultant in past 3 years	*Copy of Award Letter, Completion report /certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

(4.2.4) Any Capacity Category (Tables: A2- A):

a) Table: A2- A (Any Capacity Category for Green hydrogen & derivatives production (including manufacturing, as applicable) /Electrolyser Manufacturing

	Category Specific Qualifying Criteria for Bidder – Any Capacity Category *(refer Annexure - 8, Form-1)*	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 5 Crore	*Copy of Audited Annual Accounts. (income statements and balance sheets)*
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 1 Crore	*-same as above-*
3.	At least 15 Full Time Employees from technical field (with at least bachelor's degree in engineering/technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in green hydrogen & derivatives production/ Electrolyser manufacturing/ capital good manufacturing/ chemical industry/ fertilizer industry/ hydrocarbon sector – completed at least 2 assignments as LIE/ EPC/ Project Consultant in past 3 years	*Copy of Award Letter, Completion report /certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

b) Table: A2-A (Any Capacity Category for Smart Metering Segment, including manufacturing as applicable)

	Category Specific Qualifying Criteria for Bidder – Any Capacity Category ***(refer Annexure -8, Form-1)***	
	Criteria	**Document to be submitted**
1.	Average annual financial turnover for past 3 financial years i.e. FY 2023-24, 2024-2025, 2025-2026, is not less than Rs. 5 Crore	*Copy of Audited Annual Accounts. (income statements and balance sheets)*
2.	Minimum Annual net worth in the past 3 financial year i.e. FY 2023-24, 2024-2025, 2025-2026, not less than Rs. 1 Crore	*-same as above-*
3.	At least 15 Full Time Employees from technical field (with at least bachelor's degree in engineering/technology) with minimum 2 years' experience in renewable energy domain, on its rolls	*Details need to be submitted as mentioned in Form 1 along with a copy of recent Group PF / PPF /ESI statement being filed by the bidder with* government, as supporting document.
4.	Experience of consulting / construction monitoring / acted as Lender's Engineer, in Renewable Energy Projects– completed at least 5 assignments as LIE/ LIE/ EPC/Project Consultant for capacity size > 20 MW, in past 3 years. In addition to the above, experience in monitoring of assets in electricity distribution sector – completed at least 2 assignments as LIE/ EPC/Project Consultant in the respective sector, in past 3 years.	*Copy of Award Letter, Completion report /certificate for each assignment, as applicable*

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

(4.3) A3: Technology Specific Qualifying Criteria (Tables – A3)

(4.3.1) - Table: A3-a

	Technology Specific Qualifying Criteria for Bidder – Wind Energy Projects *(refer Annexure -8, refer Form-2)*	
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments, as LIE/EPC/Project Consultant for Wind Energy projects with installed capacity > 5 MW each, in the past 3 financial years:	*a) Copy of work award letters received.* *b) Copy of Work Completion certificates*
2.	Has employed at least one Senior Wind Energy Technology Expert on full time basis, with minimum BE/B. Tech qualification and 5 years post-qualification experience in wind energy domain, inclusive of at least 3 Wind Projects as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*
3.	Has employed at least one Junior Wind Technology Expert on full time basis, with minimum BE / B. Tech qualification and 3 years post-qualification experience in wind energy domain, inclusive of at least 2 Wind Project as consultant/ construction monitoring / Lender's Engineer	*Attach resume as per Form -3*

(4.3.2) - Table: A3-b

	Technology Specific Qualifying Criteria for Bidder - Ground Mounted Solar, Floating Solar, Solar Manufacturing and BESS *(refer Annexure -8, Form-2)*	
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments, as LIE/ EPC/Project Consultant for Solar projects of an installed capacity > 5 MW each in the past 3 financial years.	*a) Copy of work award letters received.* *b) Copy of Work Completion certificates*
2.	Has employed, at least one Senior Solar Technology Expert on full time basis, with minimum BE / B. Tech qualification and 5 years post-qualification experience in solar energy domain, inclusive of at least 3 Solar Projects as consultant/ construction monitoring / Lender's Engineer.	*Attach resume as per Form -3*
3.	At least one Junior Solar Technology Expert with minimum BE / B. Tech qualification and 3 years post-qualification experience in solar energy domain, inclusive of at least experience in 2 Project as consultant/ construction monitoring /Lender's Engineer in respective sector for which the service is proposed by LIE	*Attach resume as per Form -3*

Note: *In case of hybrid projects, the LIE will be appointed based on technology which has higher capacity in the hybrid project.*

(4.3.3) - Table: A3-c:

	Technology Specific Qualifying Criteria for Bidder –Solar Rooftop/ Off-Grid Solar Projects *(refer Annexure -8, Form-2)*	
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant for Solar rooftop projects of an aggregate installed capacity > 1 MW each, with minimum single location project size of > 50 kW in the past 3 financial years.	*a) Copy of work award letters received.* *b) Copy of Work Completion certificates*
2.	Has employed, at least one Senior Solar rooftop Technology Expert on full time basis, with minimum BE / B. Tech qualification and 3 years post-qualification experience in solar rooftop domain, inclusive of at least 2 Solar Projects as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*
3.	At least one Junior Solar Technology Expert with minimum BE / B. Tech qualification and 2 years post-qualification experience in solar rooftop domain, inclusive of at least 1 Solar Project as consultant/ construction monitoring / acted as Lender's Engineer.	*Attach resume as per Form -3*

(4.3.4) - Table: A3-d:

	Technology Specific Qualifying Criteria - Hydro Projects *(refer Annexure -8, Form-2)*	
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant for Hydro projects of installed capacity > 5 MW each, in the past 3 financial years.	*(a) Copy of work award letters received* *(b) Copy of Work Completion certificates*
2.	Has employed, at least one Senior Hydro Technology Expert with minimum BE / B. Tech qualification and 20 years post-qualification experience in Hydro energy domain, inclusive of at least 3 hydro Projects as consultant/ construction monitoring / Lender's Engineer.	*Attach resume as per Form -3*
3.	At least one Junior Hydro Technology Expert with minimum BE / B. Tech qualification and 10 years post- qualification experience in Hydro energy domain, inclusive of at least 2 hydro Project as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*

(4.3.5) - Table: A3-e:

	Technology Specific Qualifying Criteria – Bio Gas /CBG/ Biomass Power/Bagasse Co-Gen/ Waste to Energy/ EEC Projects *(refer Annexure -8, Form -2)*	
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant for power projects (based on technology applied for) of installed capacity > 5 MW in the past 3 financial years.	*(a) Copy of work award letters received* *(b) Copy of Work Completion certificates*
2.	Has employed, at least one Senior Technology Expert (Bio-Gas / CBG/ Biomass Power/Bagasse Co-Gen/ Waste to Energy/EEC) on full time basis, with minimum BE / B. Tech qualification and 5 years post-qualification experience in the domain, inclusive of experience in at least 3 Bio-Gas / CBG/ Biomass Power/Cogeneration /Waste to Energy or combination of above Projects, as consultant/ construction monitoring / Lender's Engineer	*Attach resume as per Form -3*
3.	At least one Junior Technology Expert (Bio-Gas / CBG/ Biomass Power/Bagasse Co-Gen/ Waste to Energy/EEC) with minimum BE /B. Tech qualification and 3 years post-qualification experience in the domain, inclusive of experience in at least 2 Bio-Gas / CBG/ Biomass Power/Cogeneration /Waste to Energy or combination of above Projects, as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*

(4.3.6) - Table : A3-f:

	Technology Specific Qualifying Criteria – Bio Ethanol of RE Projects	*(refer Annexure -8, Form -2)*
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant for power projects (based on technology applied for) in the past 3 financial years.	*(a) Copy of work award letters received* *(b) Copy of Work Completion certificates*
2.	Has employed, at least one Senior Technology Expert, having experience in Bio-Gas / CBG/ Biomass Power/Bagasse Co-Gen/ Waste to Energy/Ethanol projects on full time basis, with minimum BE / B. Tech qualification and 5 years post-qualification experience in the domain, inclusive of experience in at least 3 Bio-Gas / CBG/ Biomass Power/Cogeneration /Waste to Energy//Ethanol or combination of above Projects, as consultant/ construction monitoring / Lender's Engineer	*Attach resume as per Form -3*
3.	At least one Junior Technology Expert, having experience in Bio-Gas / CBG/ Biomass Power/Bagasse Co-Gen/ Waste to Energy/Ethanol projects with minimum BE /B. Tech qualification and 3 years post-qualification experience in the domain, inclusive of experience in at least 2 Biomass Bio-Gas / CBG/ Power/Cogeneration /Waste to Energy / /Ethanol or combination of above Projects, as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*

(4.3.7) - Table: A3-g:

	Technology Specific Qualifying Criteria for Bidder - Green hydrogen & derivatives production, (including manufacturing, as applicable)/ Electrolyser Manufacturing	***(refer Annexure -8, Form-2)***
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant in the respective sector (based on technology applied for) in the past 3 financial years.	*a) Copy of work award letters received.* *b) Copy of Work Completion certificates*
2.	Has employed at least one Technology Expert having experience in Green hydrogen & derivatives production/ Electrolyser Manufacturing/ capital good manufacturing/ chemical industry/ fertilizer industry/ hydrocarbon sector on full time basis, with minimum BE/B. Tech qualification and 3 years post-qualification experience in the domain, inclusive of experience in at least 2 assignments in Green hydrogen & derivatives production/ Electrolyser Manufacturing/ capital good manufacturing/ chemical industry/ fertilizer industry/ hydrocarbon sector or combination of above, as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*
3.	Has employed at least one Junior Expert having experience in Green hydrogen & derivatives production/ Electrolyser Manufacturing/ capital good manufacturing/ chemical industry/ fertilizer industry/ hydrocarbon sector on full time basis, with minimum BE / B. Tech qualification and 2 years post-qualification experience in power sector/renewable energy domain, inclusive of at least experience in 1 project as consultant/ construction monitoring / Lender's Engineer in green hydrogen & derivatives production/ Electrolyser manufacturing/ capital good manufacturing/ chemical industry/ fertilizer industry/ hydrocarbon sector or combination of above, as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*

(4.3.8) - Table: A3-h:

	Technology Specific Qualifying Criteria for Bidder - Electric Mobility Segment, including manufacturing, as applicable	***(refer Annexure -8, Form-2)***
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant in the respective sector (based on technology applied for) in the past 3 financial years.	*a) Copy of work award letters received.* *b) Copy of Work Completion certificates*
2.	Has employed at least one Senior Technology Expert having experience in retail Mobility/ Electric Mobility/ EV charging segment on full time basis, with minimum BE/B. Tech qualification and 3 years post-qualification experience in the domain, inclusive of experience in at least 2 assignments, in retail Mobility/ Electric Mobility/ EV charging projects as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*
3.	Has employed at least one Junior expert having experience in retail Mobility/ Electric Mobility/ EV charging segment on full time basis, with minimum BE / B. Tech qualification and 2 years post-qualification experience in the domain, inclusive of at least experience in 1 assignment, in monitoring of assets under retail Mobility/ Electric Mobility/ EV charging segment, as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*

(4.3.9) - Table: A3-i:

	Technology Specific Qualifying Criteria for Bidder – Smart Metering, including manufacturing, as applicable	***(refer Form-2)***
	Criteria	**Document to be submitted**
1.	Completed at least 2 assignments as LIE/EPC/Project Consultant in the respective sector (based on technology applied for) in the past 3 financial years.	*a) Copy of work award letters received.* *b) Copy of Work Completion certificates*
2.	Has employed at least one Senior Technology Expert, having experience in Smart Metering/ electricity distribution sector on full time basis, with minimum BE/B. Tech qualification and 3 years post-qualification experience in the domain, inclusive of at least 2 assignments in monitoring of assets in Smart Metering/ electricity distribution sector as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*
3.	Has employed at least one Junior expert having experience in Smart Metering/ electricity distribution sector on full time basis, with minimum BE / B. Tech qualification and 2 years post-qualification experience in the domain, inclusive of at least experience in 1 project, in monitoring of assets in Smart Metering/ electricity distribution sector, as consultant/ construction monitoring /Lender's Engineer.	*Attach resume as per Form -3*

Note: Eligibility Criteria for IIT & NIT:

Apart from the above, institutions like IIT & NIT are also eligible to apply for all the sectors. However, they required to have completed at least 2 assignments as LIE/ EPC/Project Consultant for respective renewable energy sector. Other eligibility criteria will not be applicable in such cases.

Note: *Documentary proof in form of scanned signed documents for the above shall be submitted, as indicated in the tables above*

Annexure- 3

(5) General Scope of Work:

(Signed and scanned copy of document to be furnished by the bidder)

❖ **5.1) General (For all Sectors and Financing Arrangements, as applicable):**

The Lender's Independent Engineer (LIE) shall carry out the following activities, as applicable to the nature of the project, financing arrangement and stage of implementation, in accordance with the terms of sanction and financing documents of IREDA.

A. Technical Review and Project Preparedness:

- Review the Project configuration, design basis, technical parameters and implementation plan with reference to the sanctioned Project and applicable industry practices.
- Review the site suitability, accessibility, topography, soil/foundation requirements, availability of construction facilities and other site-related aspects relevant to the Project.
- Review the adequacy of land acquired/to be acquired for the Project, including access, approach road and ROW, wherever applicable.
- Verify, wherever required, the availability and possession of land corresponding to the Project progress and proposed drawdown, based on documents submitted by the Borrower.
- Review the status of statutory approvals, clearances, permits, licences and other regulatory requirements and identify pending matters which may affect Project implementation or operation.
- Review the proposed power evacuation and power sale arrangements, including PPA and other relevant agreements, wherever applicable.
- Review the Project implementation capability of the Promoter, EPC contractor, major suppliers and subcontractors, including relevant experience and past performance.
- The LIE shall, during site visits, provide geotagged photographs of the Project location and latitude/longitude of the location visited, wherever required by IREDA.

B. Review of Project Contracts:

- Review the EPC, non-EPC, package, supply, service and other major Project contracts and assess the adequacy and completeness of the contracted scope with reference to the Project parameters, implementation schedule, Project cost and IREDA's terms of sanction.
- Review contract price, payment and advance terms, milestones, implementation period, liquidated damages, performance guarantees, warranties, insurance, testing, acceptance and other material contractual provisions with reference to Project requirements and applicable industry practices.
- Review the inspection, testing, quality assurance and acceptance provisions for major plant, machinery and equipment.
- Review the PPA, EPC/non-EPC/package contracts, evacuation arrangements and other major Project agreements, wherever applicable, and identify any material gap or inconsistency in scope, responsibility or obligations which may affect Project implementation, operation or viability.
- Where the EPC/Major Contract is awarded to the Promoter or its related entity, review the relevant back-to-back contracts/sub-contracts forming the contractual chain, including scope, pricing, payment terms, warranties and responsibilities.
- The Borrower shall appropriately disclose all related-party contractual arrangements. The LIE shall review such arrangements for arm's-length and commercially reasonable terms and report any material issue affecting the Project or IREDA's interest, along with suitable safeguards.
- Review material changes, amendments, change orders, extension of time, claims, disputes, termination notices and other contractual matters which may affect Project execution, cost, schedule or viability.

For EPC Contractor / Project-Related Financing, wherever applicable

- Review the underlying EPC contract/work order, including scope, contract value, milestones, payment terms, advances, retention, liquidated damages, performance guarantees, completion schedule and contract-wise cost incurred etc.
- Review major purchase orders and sub-contracts placed by the EPC Contractor and their broad alignment with the underlying EPC contract.
- Review work executed, bills/invoices raised and certified, payments received/receivable and outstanding contractual commitments with reference to the underlying contract.
- Review performance guarantees, advance payment guarantees, retention guarantees and other contractual securities relevant to the financed contract.

C. Project Cost and Implementation Schedule:

- Review the overall and component-wise Project cost and its reasonableness with reference to the Project scope, contractual commitments, applicable industry practices and available benchmarks.
- Review major cost components, including equipment, civil works, land, development works, preliminary and pre-operative expenses, contingency and other Project costs, as applicable.
- Review the impact of capital grants, VGF, subsidies, and other applicable benefits, wherever relevant.
- Review the milestone-based implementation schedule, including mobilisation plan, and assess its adequacy for timely completion.
- Review the preparedness of the Borrower for achieving SCOD, wherever applicable.
- Review actual progress against the approved schedule and report any material time or cost overrun, reasons thereof and proposed remedial measures.
- Review delivery schedules of major plant, machinery, equipment and other critical inputs and identify any likely impact on Project completion.

D. Disbursement and Drawdown:

- The LIE shall review the physical progress of the project w.r.t. overall financial progress of the project, further LIE shall review that EPC contractor is delivering as per contractual milestones and transactions are being done on per arm length principal in case of EPC being done by related party
- LIE shall review the advance material payments and material delivery timelines are in sync with project implementation timelines and as per contractual obligations.
- Review the drawdown schedule with reference to the Project implementation schedule, approved Project cost and funding requirements.
- Review the Conditions Precedent and other applicable conditions for first and subsequent drawdowns as stipulated in the sanction and financing documents and report the compliance status.
- For the first drawdown, indicate the required equity, unsecured loan and other promoter contribution, wherever applicable, and review the expenditure and physical progress achieved prior to commencement of disbursement.
- For subsequent drawdowns, review utilisation of previous disbursements, physical and financial progress and compliance with applicable continuing conditions.
- Identify and verify the items covered under contracts/heads against which each drawdown is proposed and confirm their admissibility under the sanctioned Project cost.
- Identify the major cost heads and sub-heads against which invoicing is proposed and verify the related expenditure.
- Review each drawdown request with reference to Project progress, contractual milestones, invoices, certified bills, payments and funding requirements and assess the eligibility of the proposed drawdown.
- Review the equity infusion and other sources of funds, wherever applicable, and their utilisation towards the Project.
- Review dues payable to major contractors/suppliers and report overdue or unsettled amounts which may have a bearing on the proposed drawdown.

- Any material deviation in the drawdown schedule, Project progress, expenditure or funding pattern from the approved/projected schedule shall be brought to the notice of IREDA.
- Verify that the proposed drawdown is against eligible expenditure and is within the sanctioned Project cost and approved financing arrangements.
- Issue the Drawdown Certificate for each drawdown, including first and subsequent drawdowns, in the prescribed format, confirming compliance with applicable conditions and eligibility of the proposed drawdown.
- For EPC Contractor financing, verify the work executed, and utilisation of funds with reference to the underlying EPC contract/work order.

E. Construction and Site Monitoring:

- Carry out quarterly site visits as required by IREDA, preferably during the first month of each quarter. The quarters shall follow the financial year convention: Q1 – April–June, Q2 – July–September, Q3 – October–December and Q4 – January–March.
- Minimum one (1) visit per quarter shall be mandatory. The site visit for a particular quarter shall be undertaken within that respective financial quarter. However, IREDA reserves the right to require visit on monthly/ bi-monthly basis as considered necessary.
- Review actual physical progress of construction, supply, erection, testing, commissioning and other Project activities, as applicable.
- Review progress against the approved milestone schedule and identify any delay or slippage affecting Project completion.
- Review delivery and installation of major plant, machinery and equipment and identify any delay or issue affecting the Project.
- Review the status of major contractual milestones and activities and report material deviations.

F. Fund Utilization, TRA and Financial Monitoring:

- Review the capital expenditure and pre-operative expenditure incurred prior to commencement of disbursement, including utilisation of equity, unsecured loans and other funds brought in by the Borrower with respect to the physical progress achieved.
- Provide utilisation of disbursements, major heads of utilisation and unutilised balance.

G. Commissioning and Post-Commissioning Monitoring:

- Review the status of commissioning and confirm completion of major Project facilities/equipment in accordance with the approved Project configuration and applicable contractual requirements.
- Review performance/acceptance tests and confirm compliance with applicable guaranteed technical and performance parameters, wherever relevant.
- Review the operational performance of the Project after commissioning, including generation/output, availability, efficiency and other relevant operating parameters, as applicable.
- Review the adequacy of O&M arrangements, including O&M contracts, resources and major maintenance requirements, wherever applicable.
- Review the applicable operating parameters stipulated under the financing documents.

H. Insurance:

- Review the adequacy, coverage, endorsement, validity and tenure of insurance at the relevant stages of Project implementation and operation.
- Confirm that required insurance coverage is maintained in accordance with Project requirements and financing documents.
- Report any material lapse, inadequacy or deviation in insurance coverage which may affect the Project or IREDA’s exposure.

I. Early Warning / Critical Issues:

The LIE shall identify and report any material early warning signal or adverse development which may affect Project implementation, viability, cash flow or IREDA's exposure, including:

- Prolonged stoppage or significant slowdown of Project works.
- Repeated delay in submission of information/documents required for monitoring.
- Major change in Project scope, design or configuration.
- Significant time or cost overrun or repeated slippage in Project milestones.
- Change in major contractor, supplier or subcontractor affecting Project execution.
- Material contractual dispute, claim, termination or other contractual issue affecting the Project.
- Change in ownership or control of the Borrower.
- Creation of additional charge or assumption of material additional liability without required approval/intimation, if applicable.
- Frequent invocation of BGs, devolvement of LCs or other material payment defaults.
- Material deviation in fund utilisation and/or project revenue
- Persistent operational issues, repeated equipment/machinery failures or unusual expenditure affecting Project performance.
- Material issue relating to land, statutory approvals, evacuation, PPA, insurance or other critical Project dependencies.
- Any other material adverse development which, in the opinion of the LIE, may affect Project implementation, operational performance, viability or IREDA's exposure.

The above list is indicative and the LIE shall report any other material issue observed during its review or site visit which may have a bearing on the Project or IREDA's interest.

J. Reporting and Certification:

- Submit periodic monitoring reports covering physical and financial progress, contractual status, expenditure, fund utilization, drawdown, implementation schedule, key risks and other relevant matters.
- Submit the monitoring visit report within the timeline prescribed by IREDA, covering the relevant monitoring period and site visit. Further, LIE shall also facilitate progress review meeting with borrower/ vendor as per requirement of IREDA, with necessary input and presentation to enable closure of various issues indicated in monitoring visit report.
- Highlight any material deviation from the approved Project parameters, cost, implementation schedule, funding pattern or conditions of sanction and suggest suitable remedial measures.
- Provide specific comments/certification on drawdown eligibility, fund utilization, Project progress and compliance with applicable financing conditions, as required by IREDA.
- Report any material technical, contractual, financial or implementation issue which may adversely affect the Project, execution of the financed contract, utilization of funds or repayment of IREDA's financing.
- Coordinate with IREDA and provide such additional information, clarification, certification or specific review as may be required by IREDA in connection with monitoring of the Project/financing.
- Maintain proper records of site visits, documents examined, verification carried out, photographs and certifications issued and make the same available to IREDA as and when required.

K. Scope of Work for Project Operational Phase and Takeover Cases applicable for all sector, except Short Term Loan, New & Emerging Technology sector and PM-KUSUM-B projects:

(i) Project Operational phase:

1. Review of operational performance of project
2. Compare actual output (e.g., power generated, units produced) against the original estimated by lender and contractual performance guarantees with discoms/offtakers
3. Review of preventive, corrective maintenance measures taken by the company
4. Review the adequacy of the **Operations & Maintenance (O&M)** team, staffing levels, skillsets of O&M staff, frequency of preventive, corrective maintenance and training programs
5. Availability of adequate spares
6. Validate actual operating expenses against the annual budget
7. Monitoring of the status of all statutory approvals, environmental clearances, and operational licenses and suggestions for renewals wherever required
8. Verify that the borrower maintains adequate insurance coverage (e.g., Business Interruption, All Risks) with the lender listed as a loss payee
9. Assessments of adherence to environmental regulations and health and safety standards
10. Promptly alert lenders to any "untoward incidents," unscheduled closures, or material defaults by the operator

(ii) Scope of work for operational projects (takeover cases)

1. Technical due diligence as per scope of work defined by IREDA
2. Review of operational performance of project
3. Compare actual output (e.g., power generated, units produced) against the original estimated by lender and contractual performance guarantees with discoms/offtakers
4. Review of preventive, corrective maintenance measures taken by the company
5. Review the adequacy of the Operations & Maintenance (O&M) team staffing levels, skillsets of O&M staff, frequency of preventive, corrective maintenance and training programs
6. Validate actual operating expenses against the annual budget
7. Monitoring of the status of all statutory approvals, environmental clearances, and operational licenses and suggestions for renewals wherever required
8. Verify that the borrower maintains adequate insurance coverage (e.g., Business Interruption, All Risks) with the lender listed as a loss payee
9. Assessments of adherence to environmental regulations and health and safety standards
10. Promptly alert lenders to any "untoward incidents," unscheduled closures, or material defaults by the operator

L. Additional Scope of Work:

- The general Scope of work is as indicated in Annexure- 3. However, the detailed scope of work may be issued at the time of Issuance/ Acceptance of Letter of Award to LIE

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

(5.2) Sector Specific Scope of Work:

❖ (5.2.1) Sector Specific Scope of Work (For Wind, Solar & Hybrid):

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Review of Energy Yield Assessment Study performed by the Developer
- Independent Energy Yield Assessment
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Project Cost Estimates
  - Contract Value (commensurate with the scope of work)
  - Identify major equipment not covered in the EPC contract and cost impact, if any.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- Review of Design and Planning of the Project
- Review of Project Implementation Capabilities of various Contractors (EPC/Civil/E&M/etc.)
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities in the field
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
  - Disbursement Certificate - LIE shall confirm that land for the above-mentioned project, in proportion to the disbursement requested, is in possession, with unrestricted access, of the Borrower /EPC Contractor / Developer/aggregator. Borrower to submit documentary evidence to LIE in this connection
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Evacuation Arrangement
  - The Lender's Independent Engineers shall assess the adequacy of proposed evacuation arrangement w.r.t. PPAs executed/ planned for execution.
  - LIE shall also review the PPA & other documents (including review of clauses of EPC contracts relevant to the operational phase) relating to the project and provide an opinion on the same.
- Power Evacuation Arrangement & Power Sale Arrangement`

- Review of Contract Documents

  The LIE shall review and identify any major issues that exist in the following project documents:
  - Supply, Erection Agreement including agreement for development, supply, construction and installation and commissioning
  - Operation and Maintenance Agreement (as and when executed) - Contractor's scope of supply; reasonableness of projected O&M costs, both routine and non-routine; Terms and conditions with regards to performance guarantees, force majeure, potential liabilities arising thereon.
  - Shared Services Agreement (if any)

  LIE shall review the above contracts with specific emphasis on:
  - Terms and conditions (including terms and conditions of performance guarantees like power curve, average availability guarantee, reactive power consumption etc., force majeure, and potential liabilities arising thereon)
  - Provisions for liquidated damages for delay and non-performance of guaranteed parameters
  - Technical provisions associated with Contractor's and Owner's responsibilities
  - Limits on total liability and individual liability caps
  - Change order procedures
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
  - Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
  - Review of Financial Statements & Fund flow status.
  - Review of Implementation schedule and Time over run and cost overrun details, if any
  - Review of delivery schedules of & delivery of plant and equipment from Equipment supplier/contractors
  - Co-ordination with IREDA Nominee Director, if appointed.
  - Review of status on receipt of various statutory approvals/clearances.
  - Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
  - Review of Drawdown Request of Borrowers vis-à-vis Project Progress and Invoicing
  - Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement.
  - Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
  - Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
  - Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
  - Remarks on site performance and efficiency tests and to certify their compliance with the guaranteed parameters and any comments on the same
  - Review of O&M plan, O&M budget and any major overhaul plans
  - The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of generation data, performance guarantee tests
- Review of O&M budget of the project
- Review of TRA Account and Insurance for the project
- Project Performance monitoring report

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

Note: *In case of hybrid projects, the LIE will be appointed based on technology which has higher capacity in the hybrid project.*

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.2) Sector Specific Scope of Work (For PM- KUSUM Projects):**

➢ **Scope of Work (For PM- KUSUM – A & C Projects):**

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Review of Energy Yield Assessment Study performed by the Developer
- Independent Energy Yield Assessment
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Project Cost Estimates
  - Contract Value (commensurate with the scope of work)
  - Identify major equipment not covered in the EPC contract and cost impact, if any.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- Review of Design and Planning of the Project
- Review of Project Implementation Capabilities of various Contractors (EPC/Civil/E&M/etc.)
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities in the field
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
  - Disbursement Certificate - LIE shall confirm that land for the above-mentioned project, in proportion to the disbursement requested, is in possession, with unrestricted access, of the Borrower /EPC Contractor / Developer/aggregator. Borrower to submit documentary evidence to LIE in this connection
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Evacuation Arrangement
  - The Lender's Independent Engineers shall assess the adequacy of proposed evacuation arrangement w.r.t. PPAs executed/ planned for execution.
  - LIE shall also review the PPA & other documents (including review of clauses of EPC contracts relevant to the operational phase) relating to the project and provide an opinion on the same.
- Power Evacuation Arrangement & Power Sale Arrangement`
- Review of Contract Documents

The LIE shall review and identify any major issues that exist in the following project documents:

- Supply, Erection Agreement including agreement for development, supply, construction and installation and commissioning
- Operation and Maintenance Agreement (as and when executed) - Contractor's scope of supply; reasonableness of projected O&M costs, both routine and non-routine; Terms and conditions with regards to performance guarantees, force majeure, potential liabilities arising thereon.
- Shared Services Agreement (if any)

LIE shall review the above contracts with specific emphasis on:

- Terms and conditions (including terms and conditions of performance guarantees like power curve, average availability guarantee, reactive power consumption etc., force majeure, and potential liabilities arising thereon)
- Provisions for liquidated damages for delay and non-performance of guaranteed parameters
- Technical provisions associated with Contractor's and Owner's responsibilities
- Limits on total liability and individual liability caps
- Change order procedures
- Evaluation of project schedule and potential for delays, damages or force majeure provisions

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
  - Number of sites to be visited, to be Finalized and communicated to LIE by IREDA before LIE visit, as per requirement
  - Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
  - Review of Financial Statements & Fund flow status.
  - Review of Implementation schedule and Time over run and cost overrun details, if any
  - Review of delivery schedules of & delivery of plant and equipment from Equipment supplier/contractors
  - Co-ordination with IREDA Nominee Director, if appointed.
  - Review of status on receipt of various statutory approvals/clearances.
  - Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
  - Review of Drawdown Request of Borrowers vis-à-vis Project Progress and Invoicing
  - Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement.
  - Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
  - Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
  - Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
  - Remarks on site performance and efficiency tests and to certify their compliance with the guaranteed parameters and any comments on the same
  - Review of O&M plan, O&M budget and any major overhaul plans
  - The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Scope of work on completion/commissioning of project:

1. Submission of project completion report including Key Project Parameters
   a. Capacity
   b. Site/s Locations
   c. Project Cost
   d. Date of Commissioning (site wise)

2. Technological Details
   a. DPR projections/IREDA approvals vs Actual
3. Issues / challenges faced during implementation of the projects.
   a. Regulatory
   b. Technical
   c. Financial
   d. Implementation
   e. Suggestions for further improvements.
4. Compliance of E& S norms
5. Review of Safety like Personal Protective Equipment, Signage, Training, Hazard Communication, Electrical Safety

- In case of time and cost over run the LIE Shall carry out following work:
  i. Review of the revised cost estimates and recommend acceptable revised cost if the borrower reports cost overrun in the project.
  ii. Identification of early warning signals such as:
     a. Delays in project execution from project implementation schedule
     b. CFA delays beyond scheme norms.
     c. DISCOM payment slippages.
     d. Repeated feeder outages.
  iii. Monitor the flow of Central Financial Assistance (CFA) and State subsidies wherever applicable during each visit
  iv. In case of time over run, suggesting revised SCOD to the lender basis verification of inputs from the borrower.

6. Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of generation data, performance guarantee tests
- Review of O&M budget of the project
- Review of TRA Account and Insurance for the project
- Project Performance monitoring report

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

- **Scope of work for PM-KUSUM-B projects:**

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report and site visit report on the adequacy and reasonableness of the following:

a) Review of letter of empanelment awarded by the State Implementing Agency (SIA) of PM KUSUM Scheme in the States of project
b) Review of allocation of off-grid solar pumps-
    - Off-Grid Solar Pump Allocated by the SIA of states till date.
    - The Status of installation of pumps vis-à-vis allocation
    - The status of pumps under installation
c) The status of payment received from SIA against the installation of solar water pump.
d) The status / Review of Approvals/ Clearances and Permits and Licenses/ consent of the farmers
e) Review of company's team and preparedness for installation of pumps,
f) Review of Compliances, timeline, technical requirements etc as per Tenders and borrower's compliance towards it
g) Review of Purchase order for modules, DC/AC solar pumps, controllers, etc and service order for civil works.
h) Review of Pre-Dispatch inspection report of the equipment being used for installation by the Govt. body
i) Review of rate validity and installation timeline for scheme in states as per the tenders
j) Status of compliance with regard to scheme as per the Tender
k) Review of time taken by the company for installation of pump after the award of letter of allocation

    - Periodical monitoring/Review of the actual construction activities.
    - Evaluation of project schedule and potential for delays, damages or force majeure

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.3) Sector Specific Scope of Work (For Short Term Loans):**

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Site Assessment (Location Suitability & Accessibility)
- Review of Land Acquisition Status, wherever applicable
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Contractor/IREDA's Applicant.
  - Disbursement Certificate - LIE shall confirm that land for the above-mentioned project, is in possession, with unrestricted access, /EPC Contractor / IREDA's Applicant Company. The Contractor/ IREDA's Applicant to submit documentary evidence to LIE in this connection
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Total Contract Price
  - Contract Value (commensurate with the scope of work)
  - Site Development and Civil Works
  - Land cost
- Review of Design and Planning of the Project
- Review of Project Implementation Capabilities of the Contractor/IREDA's Applicant (EPC/Civil/E&M/etc.)
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities in the field
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- Review of Approvals/ Clearances and Permits and Licenses
  - The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Evacuation Arrangement
  - The Lender's Independent Engineers shall assess the adequacy of proposed evacuation arrangement w.r.t. PPAs executed/ planned for execution.
  - LIE shall also review the PPA & other documents (including review of clauses of EPC contracts relevant to the operational phase) relating to the project and provide an opinion on the same.
- Review of Contract Documents

  The LIE shall review and identify any major issues that exist in the following project documents:
  - Supply, Erection Agreement including agreement for development, supply, construction and installation and commissioning
  - Shared Services Agreement (if any)

LIE shall review the above contracts with specific emphasis on:

- Terms and conditions (including terms and conditions of performance guarantees like power curve, average availability guarantee, reactive power consumption etc., wherever applicable; force majeure, and potential liabilities arising thereon)
- Provisions for liquidated damages for delay and non-performance of guaranteed parameters
- Technical provisions associated with Contractor's/IREDA's Applicant and Owner's/Project Developer's responsibilities
- Limits on total liability and individual liability caps
- Change order procedures
- Evaluation of project schedule and potential for delays, damages or force majeure provisions

- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
- Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
- Review of Financial Statements & Fund flow status of the Contractor/IREDA's Applicant.
- Review of Implementation schedule and Time over run and cost overrun details , if any
- Review of delivery schedules of & delivery of plant and equipment from Equipment supplier/contractor/IREDA's Applicant.
- Co-ordination with IREDA Nominee Director, if appointed.
- Review of status on receipt of various statutory approvals/clearances.
- Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
- Review of Drawdown Request of Borrowers/contractor/IREDA's Applicant vis-à-vis Project Progress and Invoicing
- Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement.
- Verify the status of completion of various activities carried out/to be carried out based on the contracts
- Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
- Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
- Remarks on site performance and efficiency tests and to certify their compliance with the guaranteed parameters and any comments on the same
- Review of insurances arranged/ to be arranged by the Contractor/IREDA's Applicant
- Review on payments to be released by Project Developer in Escrow Account
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

    - LIE may also visit the OEM site, if required in order to have better assessment of implementation schedule.

Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.

Insurance Review:

LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ (5.2.4) Sector Specific Scope of Work (For Manufacturing)

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Review of Detailed Project Report prepared by borrower.
- Review of Market Potential/ Requirements & capability of the borrower to meet market requirements.
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, review of Site Topography & Terrain, review of Soil & Proposed Foundation Design, review of preliminary Environmental & Social Impact assessment report)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Project Cost Estimates
  - Contract Value (commensurate with the scope of work)
  - Major equipment.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- Review of Design and Planning of the Project
- Review of arrangements made w.r.t procurement of raw material for manufacturing process
- Review of Project Implementation Capabilities of various Contractors.
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities
  - Evaluation of project schedule viz-a-viz the original construction schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up for the shortfalls
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearances, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Electricity and water requirements and arrangement thereof
- Review of End- Product Selling Arrangements made (if any)

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
  - Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
  - Review of Financial Statements & Fund flow status.
  - Review of Implementation schedule and Time over run and cost overrun details, if any
  - Review of delivery schedules for plant and equipment from Equipment supplier/contractors

- Co-ordination with IREDA Nominee Director/concurrent auditor, if appointed.
- Review of status of receipt of various statutory approvals/clearances.
- Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
- Review of Drawdown Request of Borrowers vis-à-vis Project Progress and Invoicing
- Review of applicable certificate- IEC/BIS, etc. for the plant and machinery used in manufacturing
- Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement.
- Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
- Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
- Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
- Review of utilization of IREDA disbursement
- Remarks on project performance and efficiency tests, if and as required.
- Review of O&M plan, O&M budget and any major overhaul plans.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project completion/ commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of production data, performance tests.
- Review of O&M budget of the project
- Review of Insurance for the project
- Project Performance monitoring report
- Details of the Finished Goods produced / manufactured and sold
- Comments on ALMM Listing
- Comments on the plant utilization factor
- Comments on Tie-up of Working Capital

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.5) Sector Specific Scope of Work (For Hydro):**

Technical Due Diligence (One time) :

Technical Due Diligence of DPR – Hydrology, PPS, Accessibility, Project Cost, Power Evacuation Arrangement & Power Sale Arrangement

- Review of Energy Yield Assessment Study performed by the Developer
- Independent Energy Yield Assessment considering available resources (Hydrology)
- Review of Project Cost Estimates
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- The Lender's Independent Engineer will review and comment on the adequacy and reasonableness of the following:
  - Contract Value (commensurate with the scope of work)
  - Identify major equipment not covered in the EPC contract and cost impact, if any.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of preliminary Design and Planning of the Project and suggest modifications, if any.
- Review of Power Evacuation Arrangement
  - The Lender's Independent Engineers shall assess the adequacy of proposed evacuation arrangement w.r.t. PPAs executed/ planned for execution.
  - LIE shall also review the PPA & other documents (including review of clauses of EPC contracts relevant to the operational phase) relating to the project and provide an opinion on the same.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of proposed Construction Schedule /PERT chart
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Pre- Disbursement -Review of contracts agreement, Pert Chart & Land Acquisition Status:

- Review of Project Implementation Capabilities of various Contractors (EPC/Civil/E&M/etc.)
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
- Review of Contract Documents
  The LIE shall review and identify any major issues that exist in the following project documents:
  - Supply, Erection Agreement including agreement for development, supply, construction and installation and commissioning.
  - Shared Services Agreement (if any)
- LIE shall review the above contracts with specific emphasis on:

- Terms and conditions (including terms and conditions of performance guarantees like power curve, average availability guarantee, reactive power consumption etc., force majeure, and potential liabilities arising thereon)
- Provisions for liquidated damages for delay and non-performance of guaranteed parameters
- Technical provisions associated with Contractor's and Owner's responsibilities
- Limits on total liability and individual liability caps
- Change order procedures
- Evaluation of project schedule and potential for delays, damages or force majeure provisions

- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Project Implementation phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
  - Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
  - Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
  - Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
  - Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
  - Commissioning Report
- Operation and Maintenance Agreement, if any (as and when executed) – Review of O&M arrangements for meeting commitments as per various contracts such as PPA, Contractor's scope of supply; List of O&M cost estimates components and comments on reasonableness of projected O&M costs, both routine and non-routine; Terms and conditions with regards to performance guarantees, force majeure, potential liabilities arising thereon.
- Disbursement Certificate - LIE shall confirm the fund utilized and issue certificate for requisite fund based on the project progress and schedule of fund requirement.
- Review the inspection certificate of main/critical equipment's and suggest for remedial measures, if required
  1. Monitoring of the status of all statutory approvals, environmental clearances, and operational licenses and suggestions for renewals wherever required
  2. Verify that the borrower maintains adequate insurance coverage (e.g., Business Interruption, All Risks) with the lender listed as a loss payee
  3. Assessments of adherence to environmental regulations and health and safety standards
  4. Promptly alert lenders to any "untoward incidents," unscheduled closures, or material defaults by the operator
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Scope of work on completion/commissioning of project:

1. Submission of project completion report including Key Project Parameters
   a. Capacity
   b. Site/s Locations
   c. Project Cost
   d. Date of Commissioning (site wise)

2. Technological Details
   a. DPR projections/IREDA approvals vs Actual
3. Issues / challenges faced during implementation of the projects.
   a. Regulatory
   b. Technical
   c. Financial
   d. Implementation
   e. Suggestions for further improvements.
4. Compliance of E& S norms
5. Review of Safety like Personal Protective Equipment, Signage, Training, Hazard Communication, Electrical Safety

- In case of time and cost over run the LIE Shall carry out following work:
  i. Review of the revised cost estimates and recommend acceptable revised cost if the borrower reports cost overrun in the project.
  ii. Identification of early warning signals such as:
      b. Delays in project execution from project implementation schedule
      c. CFA delays beyond scheme norms.
      d. DISCOM payment slippages.
      e. Repeated feeder outages.
  iii. Monitor the flow of Central Financial Assistance (CFA) and State subsidies wherever applicable during each visit
  iv. In case of time over run, suggesting revised SCOD to the lender basis verification of inputs from the borrower.
  v. Post Commissioning in form of Project Completion Report, which may include:
     - Signed Project Completion Certificate, including details on project commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
     - Further, upon completion of three months of the project, a report on operational performance of the project including summary of generation data, performance guarantee tests
     - Review of O&M budget of the project
     - Review of TRA Account and Insurance for the project
     - Project Performance monitoring report

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.6) Sector Specific Scope of Work (For Bio-Gas/CBG):**

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Review of Project Report (DPR/TEV) submitted by borrower.
- Review of Market Potential (for all revenue streams)/ Requirements & capability of the borrower to meet market requirements.
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Project Cost Estimates
  - Contract Value (commensurate with the scope of work)
  - Identify major equipment.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- Review of project contracts, Design & Planning of the Project and Source of promoter's contribution.
- Review of Project Implementation Capabilities of various Contractors.
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities.
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Electricity requirements and arrangement thereof.
- Review of Selling Arrangement of Ethanol and / or by-products.
- Review of Raw material agreements and availability.

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
  - Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
  - Review of Financial Statements & Fund flow status.
  - Review of Implementation schedule and Time over run and cost overrun details, if any
  - Review of delivery schedules for plant and equipment from Equipment supplier/contractors
  - Co-ordination with IREDA Nominee Director, if appointed.

- Review of status on receipt of various statutory approvals/clearances.
- Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
- Review of Drawdown Request of Borrowers vis-à-vis Project Progress and Invoicing
- Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement, also indicating anticipated commissioning of the project.
- Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
- Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
- Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
- Remarks on project performance and efficiency tests, if and as required.
- Review of O&M plan, O&M budget, and any major overhaul plans.
- Review of insurance policy, its adequacy and hypothecation to lenders.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project completion/ commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
- Review of submitted project completion /commissioning certificate and verification of installed projects assets against the submitted list of assets.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of production data, performance tests.
- Review of TRA/ Escrow Account, O&M arrangement and O&M budget of the project.
- Review of insurance policy, its adequacy and hypothecation to lenders.
- Project Performance monitoring report.

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.7) Sector Specific Scope of Work (For Bagasse co-gen /Waste to Energy/EEC):**

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Review of Energy Yield Assessment Study performed by the Developer
- Independent Energy Yield Assessment
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Project Cost Estimates
  - Contract Value (commensurate with the scope of work)
  - Identify major equipment not covered in the EPC contract and cost impact, if any.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- Review of Design & Planning of the Project and Source of promoter's contribution.
- Review of Project Implementation Capabilities of various Contractors (EPC/Civil/E&M/etc.)
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities in the field
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
  - Disbursement Certificate - LIE shall confirm that land for the above-mentioned project, in proportion to the disbursement requested, is in possession, with unrestricted access, of the Borrower /EPC Contractor / Developer/aggregator. Borrower to submit documentary evidence to LIE in this connection
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Evacuation Arrangement
  - The Lender's Independent Engineers shall assess the adequacy of proposed evacuation arrangement w.r.t. PPAs executed/ planned for execution.
  - LIE shall also review the PPA & other documents (including review of clauses of EPC contracts relevant to the operational phase) relating to the project and provide an opinion on the same.
- Power Evacuation Arrangement & Power Sale Arrangement
- Review of Contract Documents
  The LIE shall review and identify any major issues that exist in the following project documents:

- Supply, Erection Agreement including agreement for development, supply, construction and installation and commissioning
- Operation and Maintenance Agreement (as and when executed) - Contractor's scope of supply; reasonableness of projected O&M costs, both routine and non-routine; Terms and conditions with regards to performance guarantees, force majeure, potential liabilities arising thereon.
- Shared Services Agreement (if any)
- Other relevant agreement, as applicable.

LIE shall review the above contracts with specific emphasis on:

- Terms and conditions (including terms and conditions of performance guarantees like power curve, average availability guarantee, reactive power consumption etc., force majeure, and potential liabilities arising thereon)
- Provisions for liquidated damages for delay and non-performance of guaranteed parameters
- Technical provisions associated with Contractor's and Owner's responsibilities
- Limits on total liability and individual liability caps
- Change order procedures
- Evaluation of project schedule and potential for delays, damages or force majeure provisions

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope

- Review of Financial Statements & Fund flow status.
- Review of Implementation schedule and Time over run and cost overrun details , if any
- Review of delivery schedules of & delivery of plant and equipment from Equipment supplier/contractors
- Co-ordination with IREDA Nominee Director, if appointed.
- Review of status on receipt of various statutory approvals/clearances.
- Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
- Review of insurance policy, its adequacy and hypothecation to lenders.
- Review of Drawdown Request of Borrowers vis-à-vis Project Progress and Invoicing
- Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement.
- Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
- Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
- Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
- Remarks on site performance and efficiency tests and to certify their compliance with the guaranteed parameters and any comments on the same
- Review of O&M plan, O&M budget and any major overhaul plans
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project completion /commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
- Review of submitted project completion /commissioning certificate and verification of installed projects assets against the submitted list of assets.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of generation data, performance guarantee tests
- Review of O&M budget of the project
- Review of TRA /Escrow Account and Insurance for the project
- Project Performance monitoring report

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.8) Sector Specific Scope of Work (For Bio Ethanol):**

Technical Due Diligence (One time)

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Review of Project Report (DPR/TEV) submitted by borrower.
- Review of Market Potential (for all revenue streams)/ Requirements & capability of the borrower to meet market requirements.
- Site Assessment (Location Suitability & Accessibility, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of Project Cost Estimates
  - Contract Value (commensurate with the scope of work)
  - Identify major equipment.
  - Site Development and Civil Works
  - Land cost
  - Contingency, preliminary and pre-operative expenses
  - Overall project cost
  - Any other cost
- Review of project contracts, Design & Planning of the Project and Source of promoter's contribution.
- Review of Project Implementation Capabilities of various Contractors.
- Review of Construction Schedule
  - Periodical monitoring/Review of the actual construction activities.
  - Evaluation of project schedule and potential for delays, damages or force majeure provisions
  - Remedial measures proposed for making up the shortfalls
- Review of Land Acquisition Status
  - The LIE shall review the status of land acquisition, sufficiency of land acquired/to be acquired by the Borrower/Contractor/Land Aggregator /etc.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.
- Review of Approvals/ Clearances and Permits and Licenses
  The LIE shall review the Clearance, Approvals, Permits and Licenses related to the Project already obtained/to be obtained. LIE will identify remaining statutory/ non-statutory clearance/ approvals/ permits required to be obtained for successful implementation and operation of the Project.
- Review of Electricity requirements and arrangement thereof.
- Review of Selling Arrangement of Ethanol and / or by-products.
- Review of Raw material agreements and availability.

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Construction Monitoring
  - Monitor Project activities, actual with respect to Schedule to avoid over run of time & cost, by keeping track on various Project activities as per scope
  - Review of Financial Statements & Fund flow status.
  - Review of Implementation schedule and Time over run and cost overrun details, if any
  - Review of delivery schedules for plant and equipment from Equipment supplier/contractors

- Co-ordination with IREDA Nominee Director, if appointed.
- Review of status on receipt of various statutory approvals/clearances.
- Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA
- Review of Drawdown Request of Borrowers vis-à-vis Project Progress and Invoicing
- Issue drawdown certificates as per prescribed formats of Loan Agreements and submit compliance status for each condition precedent to first drawdown and subsequent drawdown as per loan agreement, also indicating anticipated commissioning of the project.
- Verify the status of completion of various activities carried out/to be carried out based on the contracts awarded to various suppliers/contractors
- Review/Monitoring of design and equipment selection for the project and suggest modifications, taking into consideration of the project appraisal report and field conditions
- Summary of all disbursements made since the last monitoring visit and towards the items it was utilized
- Remarks on project performance and efficiency tests, if and as required.
- Review of O&M plan, O&M budget, and any major overhaul plans.
- Review of insurance policy, its adequacy and hypothecation to lenders.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Post Commissioning in form of Project Completion Report, which may include:

- Signed Project Completion Certificate, including details on project completion/ commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.
- Review of submitted project completion /commissioning certificate and verification of installed projects assets against the submitted list of assets.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of production data, performance tests.
- Review of TRA/ Escrow Account, O&M arrangement and O&M budget of the project.
- Review of insurance policy, its adequacy and hypothecation to lenders.
- Project Performance monitoring report.

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

❖ **(5.2.9) Sector Specific Scope of Work (For New and Emerging Technologies – Standalone BESS/Electric Mobility & Charging Infra/Green Hydrogen & Derivatives/ Electrolyser Manufacturing/ Smart Meter (including manufacturing, as applicable)):**

Technical Due Diligence (One time):

The Lender's Independent Engineer will review and provide its comments, in the form of a Due Diligence report, on the adequacy and reasonableness of the following:

- Site Assessment (Location Suitability & Accessibility, Sufficiency of land parcel, Water Availability, Construction Power, Site Topography & Terrain, Soil & Proposed Foundation Design, Environment & Social Impact etc.)
- LIE will mandatorily provide geotagged photo of the project location visited and latitude and longitude of the visited location.
- Review of project contracts, Design & Planning of the Project.
- Review of Project Implementation Capabilities of major/turnkey Contractors.
- Review of Construction Schedule including identification of time overrun risk.
- Review of Land Acquisition Status including demarcation of project land.
- Review of Approvals/ Clearances and Permits /Licenses including safety, Environment & social compliances.
- Review of critical inputs and downstream arrangements like RE /RTC etc.
- Review of offtake arrangements
- Review of Raw material agreement and availability, as applicable.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Project Implementation Phase (on Quarterly Basis/As per IREDA requirement):

- Physical inspection of project sites.
- Review/Monitoring of the Detailed Construction/Scheme/PERT chart for various construction activities and furnish periodical reports to IREDA indicating achievement of milestones.
- Review of status on receipt of various statutory approvals/clearances.
- Review of insurance policy, its adequacy and hypothecation to lenders.
- Review of as-built designs including installed P&M,civil structure other equipment.
- Utilisation of previous disbursement in line with the drawdown request.
- Identification of critical issues & challenges related to project implementation, Remarks on project performance and efficiency tests as applicable and any non-compliance w.r.t. sanction terms.
- Issue drawdown certificates.
- Review of O&M plan, O&M budget and any major overhaul plan, as applicable. (Pre commissioning)
- Co-ordination with IREDA Nominee Director, if appointed.
- The LIE shall cover in its physical verification report that the project land(s) (acquired) has/have dedicated Right of Way(s) (ROW)/Approach Road(s). Further, the LIE shall ensure that a certificate from the Govt. Surveyor/Govt. Registered/Licensed Surveyor is taken indicating the sketch of the project land(s) delineating the boundaries, with extent/area of land & the approach road, along with the list of all title deeds covering such land(s), as applicable.

Post Commissioning in form of Project Completion Report:

- Review and verification of project completion /commissioning documents.
- Verification of installed/deployed assets against the submitted list of assets.
- Issuance of duly signed Project Completion Certificate indicating COD & project capacity including details on project completion/ commissioning, adequacy of installation of all equipment versus project design, compliance with the regulatory stipulations, permits, licenses etc.

Operational Stage:

- Physical inspection of sites & project assets.
- Further, upon completion of three months of the project, a report on operational performance of the project including summary of production data, performance tests.
- Review of O&M arrangement and budget of the project
- Review of TRA/Escrow Account and Insurance for the project
- Project Performance monitoring report.

Notes:

1. For Smart Meter & Emobilty segment projects involving discrete/distributed assets, physical inspection will be done on specified sample basis.
2. For verifying the assets, authenticity of documentary proofs (submitted by the borrower or otherwise) will be reasonably confirmed.
3. For multilocation BESS/other projects all locations shall have to be covered before overall commissioning of the project and declaration of overall COD.

Insurance Review:

- LIE will confirm the insurance adequacy, coverage & tenure in every stage of project progress, as applicable considering the project category

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Note: Additional Scope of Work:

- *In addition to the above, additional Scope of Work for Project Operational Phase and Takeover Cases shall be applicable for all the sector, except Short Term Loan, New & Emerging Technology sector and PM KUSUM-B projects (indicated under general scope of work (point 5.1)).*
- *The general Scope of work is as indicated above (Annexure 3). However, the detailed scope of work may be issued at the time of Issuance/ Acceptance of Letter of Award to LIE*

Appendix-A

❖ **(5.3) - LIE Report Prescribed Standard Format (Implementation to Commissioning)**

1. **Executive Summary:**
   - 1.1. Date and duration of site visit and brief of sites visited
   - 1.1. Key aspects of the project and snapshot of progress status,
   - 1.2. Critical issues and challenges, and any non-compliance w.r.t. sanction terms.
   - 1.3. Recommendation of LIE w.r.t requested drawdown

2. **LIE inspection details:**
   - 2.1. Date,
   - 2.2. Location,
   - 2.3. Personnel engaged,
   - 2.4. Any other observation/comments,

3. **Project Description:**
   - 3.1. Promoter/Borrower details,
   - 3.2. Project details like location/capacity etc.,
   - 3.3. Details of financing,
   - 3.4. Off-taker details,
   - 3.5. Key implementation partners – EPC Contractor, Suppliers, O&M Agency etc,
   - 3.6. Any other observation/comments

4. **Status of implementation:**
   - 4.1. Status of approvals and clearances and other statutory requirements including insurance,
   - 4.2. Status of land acquisition,
   - 4.3. Physical progress,
     - 4.3.1. Status of supply – ordered quantity, material in transit, material received etc,
     - 4.3.2. Status of erection/execution at site – mobilization details, civil works, installation etc,
     - 4.3.3. Overall progress in %, sanction vs. actual
     - 4.3.4. Any other observation/comments
   - 4.4. Financial progress,
     - 4.4.1. Funds infused – promoter contribution/term loan,
     - 4.4.2. Funds utilized,
     - 4.4.3. Overall progress in %, sanction vs. actual
     - 4.4.4. Any other observation/comments
   - 4.5. Commissioning details (as and when applicable),
     - 4.5.1. COD
     - 4.5.2. Issuance of completion certificate,
     - 4.5.3. Asset list
     - 4.5.4. Any other observation/comments
     - 4.5.5. Any other observation/comments

5. EPC Contract/Project contracts Approval/ Clearness
6. **Inspection remarks:**
   - 6.1. Overall observations regarding the project,
   - 6.2. Remarks on overall safety & quality standards,
   - 6.3. Critical Issues,
   - 6.4. Major deviations observed/envisaged,
   - 6.5. Any other observation/comments

7. Drawdown certificate
8. Geotagged Site Photographs

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

LIE Report Prescribed Standard Format (Operation Stage)

1 Executive Summary:

1.2. **Date and duration of site visit and brief of sites visited**
1.3. Key aspects of the project and snapshot of progress status,
1.4. Critical issues and challenges and any non-compliance w.r.t. sanction terms.
1.5. Recommendation of LIE w.r.t requested drawdown

2. LIE inspection details:

2.1. Date,
2.2. Location,
2.3. Personnel engaged,
2.4. Any other observation/comments

3. Review of operational Performance of plant

3.1. Performance as per sanctions.
3.2. Assets verification.

4. Adequacy of insurance policy as per sanction terms.
5. Review of TRA/Escrow Account.
6. Review of O&M arrangement and budget of the project
7. Review of Performance of the project
8. Drawdown certificate
9. Geotagged Site Photographs

Note: Standard Format of LIE report shall be followed as indicated above. However, project specific report format, as required; to be furnished/ to be finalized at the time of the Issuance/ Acceptance of Letter of Award to LIE

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Appendix-B

- **(5.4) - Prescribed format for Draw Down Certificate**

Date: ……

To:

Indian Renewable Energy Development Agency Limited
3rd Floor, August Kranti Bhawan, Bhikaji Cama Place,
New Delhi – 110066

We, …….. (the "Lender's Engineer"), DO HEREBY CERTIFY that:

1. This certificate is furnished pursuant to sanction letter no. …… dated … issued by IREDA (the "Lender") to …….. (the "borrower") for Implementation of …….. (project description) …….. Unless otherwise defined herein, all capitalized terms used herein have the meanings assigned to those terms in the Loan Sanction Letter.
2. To the best of our knowledge:
   2.1. the statements and representations made by the Borrower in the Initial application for sanction of loan amount for Rupees …….. (Rupees …….. only) are correct as of the date of the Initial Notice of Drawal and are likely to remain the same as of the proposed Initial Drawdown Date;
   2.2. Pursuant to the sanction letter no. …….. dated …….. issued by IREDA, the borrower has requested for disbursement of Rupees …… (Rupees …… only);

3. Unless otherwise defined herein, all capitalized terms used herein have the meanings assigned to those terms in the sanction letter.
   3.1. The status of implementation of the project including achievement of milestones is as under: (Insert table with major activities and status)
   3.2. …. (Comments as necessary) ……..

4. Remarks:
   4.1. The amount of Drawdown sought in the Notice of Drawal is needed in view of the requirements of the Project and is consistent with the Construction Budget and the Project implementation Schedule.
   4.2. Any other observation/comments,

(Authorized Signatory of LIE)

Note: Standard Format of LIE report/ Draw Down Certificate, shall be followed as indicated above. However, project specific report format, as required; to be furnished/ to be finalized at the time of the Issuance/ Acceptance of Letter of Award to LIE

Appendix-C

❖ (5.5) - VISIT AND REPORT SUBMISSION PROCESS AND TIMELINE

1. **Visit and Submission of Reports:**

   - Progress report for physical progress review to be submitted within 15 days of the site visit on IREDA project monitoring portal (**PROFIN)**
   - Minimum one (1) visit per quarter shall be mandatory. The site visit for a particular quarter shall be **undertaken within that respective financial quarter**. The corresponding Progress Report may, however, be submitted in the **immediately succeeding quarter**, provided that it is submitted within **15 days from the date of the site visit**.(report shall be submitted within 15 days of next quarter) IREDA reserves the right to require site visit and submission of reports on monthly/ bi-monthly basis as considered necessary.
   - Financial Quarter is specified as Q1: (January 1 – March 31), Q2: (April 1 – June 30), Q3: (July 1 – September 30) Q4: (October 1 – December 31)

2. **Timelines Matrix**

Activity	**Timeline**
Progress Report Submission after Visit	Within 15 working days of visit date
Drawdown Certificate, as required	Within 7 days of receipt of NoD (Notice of Drawl)
Invoice Submission	within 45 working days from visit (on acceptance of report by IREDA

Salient Features of the IREDA PROFIN Portal

1. Online scheduling of LIE site visits and inspections.
2. Standardized online submission of monitoring reports along with photographs and supporting documents.
3. Workflow-based review, observations and approval of monitoring reports.
4. Automated Email alerts, reminders and dashboard for monitoring report status and timelines.

Schedule of Deliverable:

Deliverable	**Timeline**
First Report Submission after visit	Within 15 working days of visit date
Review/Return by IREDA	Within 7 working days from first Submission date
Re-submission by LIE after Return from IREDA	Within 7 working days from Return date

Note: *There will not be a gap of more than 90 days in between submission of two consecutive quarterly report*

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Annexure - 4

(6) Fee Structure:

(Amount in Rs.)

Sl. No.	Description of Technology & Category (Small, Medium, Large, Any)	Remuneration/ Professional Fee per visit per Report - lump sum (excluding GST) (for the applied categories only)
1.	**Wind**	
a.	Up to 25 MW (Small)	Rs. 1,40,000
b.	Above 25 MW & Up to 100 MW (Medium)	Rs. 2,00,000
c.	Above 100 MW (Large)	Rs. 2,51,000
2.	**Ground Mounted Solar and floating Solar**	
a.	Up to 25 MW (Small)	Rs.56,000
b.	Above 25 MW & Up to 100 MW (Medium)	Rs.84,000
c.	Above 100 MW (Large)	Rs.1,11,000
3.	**Solar Roof Top/ off – grid solar**	
a.	Up to 10 MW (Small)	Rs.90,000
b.	Above 10 MW & Up to 50 MW (Medium)	Rs.1,05,000
c.	Above 50 MW (Large)	Rs.1,40,000
4.	**Hydro**	
a.	Up to 10 MW (Small)	Rs.1,11,000
b.	Above 10 MW & up to 25 MW (Medium)	Rs.1,67,000
c.	Above 25 MW (Large)	Rs.2,23,000
5.	**Bio Gas / CBG**	
a.	Up to 10 TPD (Small)	Rs.75,000
b.	Above 10TPD (Medium)	Rs.1,00,000
c.	Above 20TPD (Large)	Rs.1,25,000
6.	**Biomass Power /Bagasse co-gen /Waste to Energy/EE**	
a.	Up to 10 MW (Small)	Rs.75,000
b.	Above 10 MW & Up to 30 MW (Medium)	Rs.1,00,000
c.	Above 30 MW (Large)	Rs.1,25,000
7.	**Bio Ethanol**	
a.	Up to 100 KLPD (Small)	Rs.75,000
b.	Above 100 KLPD & Up to 250 KLPD (Medium)	Rs.1,00,000
c.	Above 250 KLPD (Large)	Rs.1,25,000
8.	**BESS**	
a.	10MW (Small)	Rs.56,000
b.	>10MW-50MW (Medium)	Rs.84,000
c.	>50MW (Large)	Rs.1,11,000
9.	**Solar Manufacturing (Poly Silicon to Module)**	
a.	Up to 1500 MWp (Small)	Rs.90,000
b.	Above 1500 MWp & Up to 3000 MWp (Medium)	Rs.1,20,000
c.	Above 3000 MWp (Large)	RS.1,50,000
10.	**Electric Mobility Segment** *(including manufacturing, as applicable)*	
A.	**Two-wheeler/ three-wheeler/ charging infra / Battery swapping**	
a.	Loan Amount Up to 50 Cr. (Small)	Rs.90,000
b.	Loan Amount more than 50 Cr. up to 100 Cr. (Medium)	Rs. 1,50,000
c.	Loan Amount more than 100 Cr.(Large)	Rs. 2,00,000
B.	**Four Wheelers/ Buses and other heavy vehicles**	
a.	Loan Amount Up to 100 Cr (Small)	Rs.90,000
b.	Loan Amount more than 100 Cr. up to 250 Cr. (Medium)	Rs. 1,50,000
c.	Loan Amount more than 250 Cr (Large)	Rs. 2,00,000
11.	**Smart Metering** (Any Capacity) *(including manufacturing, as applicable)*	Rs. 90,000
12.	**Green hydrogen and derivatives production** (Any Capacity) *(including manufacturing, as applicable)*	Rs. 2,00,000
13.	**Electrolyser manufacturing** (Any Capacity)	Rs. 2,00,000
14.	**PM-KUSUM**	
a.	Up to 10 nos. of locations (as per sanction) (Small)	Rs.56,000
b.	Up to 30 nos. of locations (as per sanction) (Medium)	Rs.84,000
c.	Up to 50 nos. of locations (as per sanction) (Large)	Rs.1,11,000

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Note: *For PM- KUSUM projects, numbers of sites to be visited, to be Finalized and communicated to LIE by IREDA before LIE visit, as per requirement*

Note:

- ***Taxes applicable would be extra.***
- ***Outstanding travel is only for one person except in exceptional cases, more persons may be allowed, after mutually agreed with LIE and IREDA Limited.***
- *IREDA reserves the right to modify the scope of services, if required, based on future requirement. However, in case of major changes in the scope of services, fee shall be paid separately as mutually agreed by IREDA Ltd. after indicating the due reason for such changes to the borrower.*
- ***The lumpsum category wise professional fee as listed above (Annexure – 4) will be paid by IREDA for the corresponding category, as applicable and debited to borrower's account. However, traveling and Boarding & Lodging will be borne by the respective borrower directly.***
- *The fee structure shall be applicable for 3 years form the date of publication of Roaster of empanelled LIEs. No fresh assignment will be allotted to the empanelled LIEs after the terminal date however the ongoing assignments, if any after the terminal date will continue as per allotment terms.*

Methodology shall be followed for Bills raised / payable to LIE:

- The following methodology/process will enable the borrowers to claim the benefit of GST ITC towards expenses for LIE and also ensure compliance to Income tax TDS rules.
- All invoices to be issued by LIEs must be "Billed to the respective Borrower, by incorporating the borrower GST Number – This will enable GST credit is reflected in GSTR-2A/2B of the respective borrower.
- The name of IREDA should be specified as "Paying Authority" on the invoice, (i.e. "Paying Authority : IREDA Limited, PAN No. AAACI1384C"), since IREDA is engaging the LIE and shall also release the payment to LIE
- The LIE shall submit the original invoice (in duplicate) in aforesaid manner to the respective project group for processing of the LIE bills & Project group will process the bills accordingly.
- The payment group shall, after due verification, release the payment to LIE after deducting applicable income tax TDS on such payments and the debit entries shall be posted in respective borrower's account.
- Reimbursement of LIE payments from borrowers - Project group may forward/provide the duplicate copy of LIE bill to respective borrower for their records.
- Loan group shall intimate the borrower for payment of LIE bill through incorporation in subsequent period's Demand Note.
- Borrowers may deduct TDS on LIE fees at applicable rates under the Income Tax Act, 1961.
- The TDS should be deposited against IREDA, PAN No. AAACI1384C by the borrower (as per existing practice)

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Annexure 5

(7) Broad Terms & Conditions of IREDA:

(Signed and scanned copy of document to be furnished by the bidder)

1. Charges/ Fees

The lumpsum professional fee will be paid by IREDA and debited to borrower's account. However, traveling and Boarding & Lodging will be borne by the respective borrower directly.

Note:

- The prices are for complete scope of work. The taxes and duties will be as per actual over and above the quoted price.
- Rates with ceiling shall remain firm and fixed for a period of 3 years form the date of publication of Roaster of empanelled LIEs. If an assignment is still pending or the duration of empanelment needs to be increased, there will be no escalation of rates, nor shall it be allowed for any pending project until the completion of the work assigned.

2. Terms of Payment

Payment to the LIE shall be made on an actual site-visit basis and report submission at the approved per-site-visit professional fee, subject to satisfactory completion of the visit and acceptance by IREDA of the corresponding Site Visit Report and other applicable deliverables.

The empanelled consultant will raise the invoice for payment on the submission of Technical Due Diligence report/ Construction Monitoring report/ Project monitoring report, as applicable

3. Visits

- One site visit per quarter is normally envisaged; however, additional visits, if specifically required/authorised by IREDA during the same quarter, shall also be payable at the same approved per-site-visit rate.
- Mere completion of a quarter, visit or submission of an invoice shall not constitute entitlement to payment, which shall be released only upon satisfactory acceptance of the relevant reports/deliverables by IREDA.
- The site visit will generally be conducted by the Senior Technical Expert, however if there has to be a change in expert or more no. of personnel are deployed for site visit, it has to be with prior permission of IREDA.
- The working team of LIE for the project shall comprise of two professionals comprising of one Senior and one Junior Technology expert as defined in the bid document. During the assignment of the work, the LIE has to intimate the details of the professional in the team.
- Site monitoring report has to be submitted within 15 days after site visit.
- LIE shall have sufficient manpower on its role to conduct the regular site visit in timely manner.

4. Deliverables

The deliverables, after the site visits shall be as below:

1. One-time Due Diligence
   a. Site visit Report for each site in pre-sanction site visit, verifying
      i. Statutory approvals/ clearances received as well as expected date of receipt of pending clearances
      ii. Contractual agreements (including EPC and PPA)
      iii. Status of site preparation, including but not limited to, availability of approach road, suitability of terrain, transmission network etc.
      iv. Site adequacy in terms of Land available, energy yield
      v. Physical progress at site
      vi. Manpower at site
   b. Compliance status of Technical and commercial conditions
      i. Choice and efficacy of project design including machinery chosen
      ii. Fund flow arrangements
      iii. Equity infused by the project developer
2. Construction Monitoring Phase
   (i) Site Inspection report
   (ii) Construction progress report vis-à-vis material procurement, site work execution & compliances and commissioning status
   (iii) Progress as per projection submitted by borrower against actual
   (iv) Utilization of funds and time and cost/time overrun possibilities.
   (v) Verification of COD (as per requirements of sanction, net metering/gross metering as applicable).
   (vi) Verification of list of assets (as per format of IREDA if project is completed and COD achieved
3. Post Commissioning of Project Monitoring
   (i) Submission of MIS report & site visit report, as per IREDA requirement; regarding the operations, performance and revenue generation by project

5. Validity

- The empanelment / rates shall be valid for a period of 3 years form the date of publication of Roaster of empanelled LIEs. . IREDA may extend the same if required, on mutually agreed terms.
- Assignment once awarded to an empanelled LIE for a project shall ordinarily be continued for up to 1 year from the COD of the respective project, unless otherwise IREDA decides to terminate the same for reasons to be conveyed in writing.

6. Methodology of Award of Work

All the applicants meeting the eligibility criteria as indicated in the RFP document to the satisfaction of IREDA and accepting all the terms & conditions, including Fee Structure (Annexure - 4) in the RFP document, may be empanelled with IREDA, after evaluation and approval by competent authority at IREDA and allotment of assignments for their respective categories will be done on Roaster basis.

On award of assignment, LIE shall submit to IREDA, within 10 working days of the date of Letter of Award, the names of the team members constituted for working on the project including the names of Senior and Junior Technology Experts for that particular project.

The bidder shall ensure that the team member shall remain same, as per those mentioned in bidder's application for empanelment. In case of any subsequent change in Technology Experts, they should meet the criteria specified in the FORMS of relevant technology of this document.

Approval of the change in team members for work assigned under empanelment for LIE shall be required from IREDA before commencing work on the assignment.

The resume of relevant Technology experts in the team should be submitted in the format as prescribed in the RFP document.

7. LIE eligible for more than one category

The parties who are eligible for more than one category/ technology may submit different rates/ charges, for each category and technology. For the cyclic award of work, they will be considered separately for all eligible categories.

8. Tax/ duties

Statutory variation in taxes, duties and levies during the tenure of the empanelment shall be reimbursed.

IREDA shall be entitled to deduct taxes at source from all the payments, to be made to the agency, in accordance to with the Indian Income Tax Laws and Rules applicable from time to time and deposit it with concerned Govt. Authorities within the prescribed time. The necessary certificate about deduction of tax in accordance with law shall be furnished to the agency.

9. Alliance Bid:

a) Alliance of one Lead Partner and one or more specific Technology Support Partners is allowed.
b) The Alliance arrangement has to be formalized pre-bid. Post-award sub- contracting of the assigned work shall not be allowed in any case and will be liable for cancellation of empanelment.
c) One Lead Partner shall have only one Technology Support Partner for one technology.
d) One Technology Support Partner will not bid in alliance with more than one Lead Partner.
e) The Pre-bid alliance once submitted shall be permanent until the tenure of empanelment. In the event of withdrawal of a Technology Support Partner for any reasons, the empanelment in particular category shall be withdrawn.

10. Compensation for delay

In the event of the Agency failing to adhere to the deliverables & timelines, IREDA may without prejudice to any other right or remedy available, may recover liquidated damages for deviation from conditions post empanelment as follows:

a) After the award of work to an empanelled bidder, an amount of 1 % of the total fee may be deducted for 14 working days of delayed submission of report at each instance and that the overall compensation for delay against delayed completion of work shall be limited to 10 % of total rate of award.
b) Can repudiate the work awarded or even the empanelment at the risk and cost of the empanelled organisation.

Liquidated damages, for delay in services can be recovered from the bill of services submitted by the empanelled agency. The levy of liquidated damages will be at the discretion of IREDA.

11. Settlement of Disputes and Arbitration

As per section 1.10 of Annexure – 7 of this document

12. Laws & Jurisdiction of Empanelment

The laws applicable to the empanelment shall be the laws in force in India. The courts of New Delhi shall have exclusive jurisdiction in all matters arising under the empanelment.

13. Damages for Non-Compliance, Remedies for Non-Performance and Fraudulent Practices

For reasons, which may include unsatisfactory performance of the Services, false reporting during the empanelment period, or the bidder resorting to unacceptable or unlawful and fraudulent practices either during bidding or during execution of the works assigned under empanelment, or for any other reason whatsoever, IREDA at its discretion may de-empanel/blacklist the agency from participating in any future bidding process for a specified period of time.

Post completion/during pendency of assignment, if performance of LIE is found unsatisfactory, clarification shall be sought from the LIE for providing its response within maximum time of 15 days.

During the 15 days' time period where in clarifications is sought from the LIE, the empanelment of LIE shall be kept in abeyance for any further appointment. Pursuant thereto, the clarification submitted by the LIE shall be reviewed by IREDA and if found satisfactory, empanelment shall be resumed. If no response is received or upon receipt of unsatisfactory clarifications, IREDA reserves the right to terminate empanelment of the LIE.

IREDA Policy & Procedure for Blacklisting / Banning of Empanelled LIE/LFA, Consultant and Valuer for IREDA funded Projects, shall be followed in case of any misconduct/irregularities noticed on the part of empaneled Agency in performance of their duties.

14. Force Majeure

As per Annexure - 7 section 1.5 o f this document

15. Other terms and conditions

a) Firms not having minimum relevant experience in the respective field / no. of personnel need not to apply.

b) In case of hybrid projects, the LIE will be appointed based on technology which has higher capacity in the hybrid project

c) Firms not having Goods & Service Tax Registration will be rejected.

d) IREDA reserves the right to accept or reject any other request for empanelment also without assigning any reason. Firms empanelled will be informed suitably.

e) The bid submitted without the acceptance of IREDA's terms & conditions shall be summarily rejected.

f) No further discussions/interface will be granted to bidders whose bids have been disqualified.

g) IREDA reserves the right to accept or reject any or all bids in part or in total without assigning, any reason and IREDA's decision shall be final and binding on all the parties.

h) Bids not submitted in the prescribed bid form shall be summarily rejected.

i) Bids not submitted with the prescribed processing fee shall be summarily rejected

j) If last date of submission and opening of bid is a holiday, the bids shall be opened on next working day.

k) Canvassing in connection with the bids is prohibited and the bid submitted by the applicant who resorts to canvassing shall be liable for rejection.

l) If the performance of the assignment is not found satisfactory, IREDA shall have the right to terminate the work assigned without any further notice/correspondence. No fees will be paid including the amount withheld (if any), once the notice issued to the party. In case of unsatisfactory service or discontinuation of service by empanelled agency, IREDA will engage alternate empanelled agency at the sole risk and cost of the existing agency.

m) The performance of the empanelled agencies will be reviewed by an evaluation committee constituted by CMD, IREDA. Basis its evaluation, the committee will make recommendations of addition/deletion in the list of empanelled agencies. The addition any new agency to the empanelled list however, will be subject to any such agency meeting all the aforementioned requirements. The empanelment of such agencies also will be normally limited to remaining period of 3 years from initial empanelment of agencies. After the completion of the 3 years, IREDA, at its discretion, may extend the period of empanelment at mutually agreed terms.

(**Signature of duly authorized person on behalf of the bidder)**
(Name & Affix official seal of Signatory)

Annexure - 6

(8) Letter of Confirmations / Undertakings:

(Signed and scanned copy of document to be furnished by the bidder)

To,

Sub: Application for Empanelment of Lender's Independent Engineers (LIE) - Ref No. RfP-IREDA/ REN/ Emp/LIE/2026

1. We / undersigned offer to apply for empanelment with IREDA Ltd., as a Lender's Independent Engineer (LIE) for renewable energy projects as per details enclosed.
2. We agree to abide by this bid offer for a period up to six months from the date of opening of Price Bid and the conditions of this offer shall remain effective & binding upon us for acceptance at any time before the expiry of the said period.
3. We understand that IREDA reserves the right to accept /reject any bid, without assigning any explanation or reason and decision of IREDA management shall be final and binding on all the bidders.
4. **We understand that the empanelment of qualified bidders is inter alia subject to the acceptance of all the terms and conditions in toto.**
5. We the bidder, hereby declare and affirm that our company /firm / entity is not banned or blacklisted by Govt. Institutions in India as on the date of submission of this bid.
6. We the bidder, hereby declare and affirm that our company /firm / entity is not declared a wilful defaulter banks/ financial Institutions in India as on the date of submission of this bid.
7. We have examined the above-referred RFP document along with all the annexures attached with the RFP.
8. We acknowledge having received the addendum / corrigenda to the RFP document, if any.
9. If we are empanelled by IREDA, we undertake to start the assignment under the scope immediately after receipt of any work mandate under this empanelment. We have taken note of liquidated damages clause in the RFP, as well as the clause no. 1.3 of Annexure - 7, on compensation for delay in Broad terms and conditions of IREDA and agree to abide by the same. We also note that IREDA reserves the right to cancel our empanelment; and de-empanelment clause, as per terms and condition, would be applicable. We understand that for delays not attributable to us or on account of uncontrollable circumstances, penalties will not be levied and that the decision of IREDA will be final and binding on us.
10. We agree that, if IREDA decides that a formal contract is required to be prepared and executed; this offer will be binding on us. We also certify that the information/data/particulars furnished in our bid are factually correct. We also accept that in the event of any information / data / particulars are found to be incorrect, IREDA will have the right to disqualify /blacklist us and charge monetary damages.
11. We undertake to comply with the terms and conditions of the bid document. We understand that IREDA may reject any or all of the offers without assigning any reason whatsoever.
12. **Declaration for Acceptance of Scope of Work-** We have carefully gone through the Scope of Work contained in the above-referred RFP document at **Annexure – 3.** We declare that all the provisions of this RFP are acceptable to my company (and alliance partner, if applicable). We further certify that we are signing this letter though an authorized signatory of our company and he is, therefore, competent to make this declaration.
13. **Declaration for Acceptance of Broad Terms and Conditions of IREDA -** We have carefully gone through the Terms & Conditions contained in the above- referred RFP document as well those annexed herewith. We declare that all the provisions of these RFP are acceptable to my company (and alliance partner, if applicable). We further certify that we are signing this letter though an authorized signatory of our company and he is, therefore, competent to make this declaration.

14. We submit our Bid Document herewith. We understand that

a) You are not bound to accept the lowest or any bid received by you, and you may reject all or any bid.
b) If our Bid for the above empanelment is accepted, unless and until IREDA desires for a formal contract to be prepared and executed, this bid together with your written acceptance thereof shall constitute a binding agreement between us.
c) If our bid is accepted, we are to be jointly and severally responsible for the due performance of the works assigned under the empanelment.

15. We confirm that we have not physically submitted this bid/offer, and the same has been submitted only online on the stipulated e-tender website.

(**Signature of duly authorized person on behalf of the bidder)**

(Name & Affix official seal of Signatory)

Annexure - 7

(9) OTHER TERMS AND CONDITIONS:

1.1. Definitions (Relevant as per Bid Document)

a)**Notification of Empanelment**

After selection of the Successful Bidder and after obtaining internal approvals and prior to expiration of the period of Bid validity, IREDA will send Notification of Empanelment to the selected Bidder.

b)**Taxes and Duties**

All taxes deductible at source, if any, at the time of release of payments, shall be deducted at source as per then prevailing rates while making any payment.

The benefits realized by the Bidder due to lower rates of taxes, duties, charges and levies shall be passed on by the selected Bidder to IREDA.

c)**Payment Terms**

The payment will be made as per the payment terms mentioned in the broad terms and conditions of IREDA, given at **Annexure -5**, subject to satisfactory completion of work/submission & acceptance of final report/review by IREDA.

d)**Visit Fees:**

Fees for the services/ per site visit per report of LIE, shall remain fixed during the empanelment period. There shall be no increase in fee for any reason whatsoever. Therefore, no request for any escalation of the cost / price shall be entertained. IREDA may increase the duration of empanelment, if required, at mutual consent.

e)**Confidentiality**

The empanelled Bidder and alliance partner, if any, shall treat the details of the documents shared with them during course of empanelment as secret and confidential. IREDA may ask the Successful Bidder, if required, to submit a separate Non-Disclosure Declaration (NDD).

f) **Intellectual Property Rights**

All rights, title and interest of IREDA in and to the trade names, trademark, service marks, logos, products, copyrights and other intellectual property rights shall remain the exclusive property of IREDA and Bidder shall not be entitled to use the same without the express prior written consent of IREDA. Nothing in empanelment/works executed under it including any discoveries, improvements or inventions made upon with/by the use of the Bidder or its respectively employed resources pursuant to completion of empanelment shall neither vest nor shall be construed so that to vest any proprietary rights to the Bidder. Notwithstanding, anything contained in terms of empanelment, this clause shall survive indefinitely, even after conclusion/termination of this empanelment.

g)**No Damage of IREDA Property**

Bidder shall ensure that there is no loss or damage to the property of IREDA while executing the services. In case, it is found that there is any such loss/damage due to direct negligence/non-performance of duty by any personnel, the amount of loss/damage so fixed by IREDA shall be recovered from the Bidder.

h)**Indemnity**

The Bidder shall indemnify, protect and save IREDA and hold IREDA harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including reasonable attorney fees), relating to or resulting directly or indirectly from

- An act of omission or commission of the Bidder, its employees, its agents, or employees of its alliance partners in the performance of the services provided under this empanelment,
- Breach of any of the terms of this Empanelment or breach of any representation or warranty or false statement or false representation or inaccurate statement or assurance or covenant by the Bidder,
- Bonafide use of the deliverables and or services provided by the Bidder,
- Misappropriation of any third party trade secrets or infringement of any patent, trademarks,

copyrights etc. or such other statutory infringements in respect of all components provided to fulfil the scope of this project,

- Claims made by the employees, alliance partner, alliance partner's employees, who are deployed by the Bidder, under this empanelment,
- Breach of confidentiality obligations of the Bidder,
- Gross negligence or gross misconduct solely attributable to the Bidder or by any agency, or any of their employees by the bidder for the purpose of any or all of the obligations under this Empanelment.

The Bidder shall further indemnify IREDA against any loss or damage arising out of loss of data, claims of infringement of third-party copyright, patents, or other intellectual property, and third-party claims on IREDA for malfunctioning of the equipment or software or deliverables at all points of time, provided however, IREDA notifies the Bidder in writing immediately on being aware of such claim, and the Bidder has sole control of defence and all related settlement negotiations.

Bidder shall be responsible for any loss of data, loss of life, etc., due to acts of Bidder's representatives, and not just arising out of gross negligence or misconduct, etc., as such liabilities pose significant risk.

The Bidder shall indemnify IREDA (including its employees, directors or representatives) from and against claims, losses, and liabilities arising from:

i. Non-compliance of the Bidder with Laws / Governmental Requirements.
ii. Intellectual Property infringement or misappropriation.
iii. Negligence and misconduct of the Bidder, its employees, alliance partner and agents.
iv. Breach of any terms of empanelment, Representation or Warranty.
v. Act of omission or commission in performance of service.
vi. Loss of data.

Indemnity would be limited to court awarded damages and shall exclude indirect, consequential and incidental damages. However, indemnity would cover damages, loss or liabilities, compensation suffered by IREDA arising out of claims made by its customers and/or regulatory authorities.

Bidder shall indemnify, protect and save IREDA against all claims, losses, costs, damages, expenses, action, suits and other proceedings, resulting from misappropriation of any third party trade secrets or infringement of any patent, trademarks, copyrights etc., or such other statutory infringements under any laws including the Copyright Act, 1957 or Information Technology Act 2000 in respect of all the hardware, software and network equipment or other systems supplied by them to IREDA from whatsoever source, provided IREDA notifies the Bidder in writing as soon as practicable when IREDA becomes aware of the claim however,

i. The Bidder has sole control of the defense and all related settlement negotiations
ii. IREDA provides the Bidder with the assistance, information and authority reasonably necessary to perform the above and
iii. IREDA does not make any statements or comments or representations about the claim without the prior written consent of the Bidder, except where IREDA is required by any authority/ regulator to make a comment / statement/ representation. Indemnity would be limited to court or arbitration awarded damages and shall exclude indirect, consequential and incidental damages and compensations. However, indemnity would cover damages, loss or liabilities suffered by IREDA arising out of claims made by its customers and/or regulatory authorities.

1.2. Bidder's Liability

a) The selected Bidder will be liable for all the deliverables.
b) The Bidder's aggregate liability in connection with obligations undertaken as part of the Project regardless of the form or nature of the action, giving rise to such liability, shall be at actual.
c) Indemnity would be limited to court awarded damages and shall exclude indirect, consequential and incidental damages. However, indemnity would cover damages, loss or liabilities, compensation suffered by IREDA arising out of claims made by its customers and/or regulatory authorities.

1.3. Liquidated Damages

a) Due to negligent act of the Bidder, if IREDA suffers losses, and incurs damages, the quantification of which may be difficult, the total amount of liquidated damages under this engagement shall be payable to IREDA and the Bidder shall agree to pay such liquidated damages as defined. The Bidder is expected to deliver the services as per the requirement of IREDA. If there is repeated deficiency in terms of service by the service provider, IREDA shall record the same and shall exercise its right to terminate the contract and award the work to other empanelled agency. In case of non-delivery in time by the Bidder, IREDA reserves the right to get the work done on its own or through any other third party and the cost towards paid services & other charges will be deducted from the billing of selected agency as a penalty charges.

1.4. Fraudulent and Corrupt Practice

b) "Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of the project and includes collusive practice among Bidders (prior to or after bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the IREDA of the benefits of free and open competition.

c) "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value, pressuring to influence the action of a public official in the process of project execution.

d) IREDA will reject a notification of empanelment if it determines that the bidder recommended for empanelment has engaged in corrupt or fraudulent practices in competing for or in executing the project.

1.5. Force Majeure

a)Notwithstanding the provisions of the RFP, the empanelled bidder or IREDA shall not be liable for penalty or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the empanelment/works awarded under it, is the result of an event of Force Majeure. For purposes of this clause, "Force Majeure" means an event beyond the control of the bidder and not involving IREDA or bidder's fault or negligence and not foreseeable. Such events may include, but not restricted to wars, revolutions, epidemics, natural disasters etc.

b) If force majeure situation arises, the bidder shall promptly notify IREDA in writing of such condition and cause thereof. Unless otherwise directed by IREDA in writing, the Bidder shall continue to perform its obligations as per the work awarded, as far as possible.

1.6. De-Empanelment due to discrepancies

IREDA reserves its right to de-empanel the selected bidder in the event of one or more of the following situations, that are not occasioned due to reasons solely and directly attributable to IREDA alone;

a) Serious discrepancy observed during performance as per the scope of empanelment.

b) If the Bidder makes any statement or encloses any form which turns out to be false, incorrect and/or misleading or information submitted by the Bidder/Bidder turns out to be incorrect and/or conceals or suppresses material information.

c) In case of negative feedback from IREDA / borrower during execution of work.

The Bidder would be required to compensate IREDA for any direct loss incurred by IREDA due to the de-empanelment and any additional expenditure to be incurred by IREDA to appoint any other Bidder.

1.7. De-Empanelment due to other reasons

a. For Convenience: IREDA by written notice sent to Bidder for de-empanel him at any time for its convenience, giving one month's prior notice. The notice of de-empanelment shall specify that the termination is for convenience the extent to which Bidder's performance under the empanelment is terminated and the date upon which such termination become effective.

b. For Insolvency: IREDA, at any time, may de-empanel the bidder by giving written notice to Bidder, if Bidder becomes bankrupt or insolvent. In this event, de-empanelment will be without compensation to Bidder, if such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to IREDA.

c. For Non-Performance: IREDA reserves its right to de-empanel the bidder in the event of Bidder's failures in execution of work awarded or repeated non-acceptance of assignments without proper/ acceptable justification to IREDA

d) Conflict of interest: LIE will not take up any assignment whose interests are in conflict with this Contract, or that may place the LIE in a position of being unable to carry out the Assignment or above all pose a threat to IREDA's business in future.

IREDA Policy & Procedure for Blacklisting / Banning of Empaneled LIE/LFA, Consultant and Valuer for IREDA funded Projects, shall be followed in case of any misconduct/irregularities noticed on the part of empaneled Agency in performance of their duties.

1.8. Integrity Pact:

The Integrity Pact essentially envisages that the prospective bidders/successful bidders and the IREDA, committing that persons/officials of both sides, not to resort to any corrupt practices in any aspect/stage of the contract and shall act as per the ethical conduct & behavior. prospective bidders, wo are empaneled with IREDA floated through this RFP and thereafter successfully empaneled with IREDA shall be deemed to commit themselves to such an Integrity Pact with the IREDA. This condition should not be breached by both the parties in any stage of bidding/contract/assignment awarded. LIE is required to sign the Integrity Pact with IREDA as per format & terms and conditions enclosed at the time of specific assignment after empanelment. The attached copy of the Integrity Pact is in the form given in the Annexture -10

1.9. Accountability and Responsibility of Lender's Independent Engineer (LIE):

a) Professional Responsibility and Standard of Care: The Lender's Independent Engineer (LIE) shall exercise the highest standards of professional skill, diligence, care, integrity and independent judgment while carrying out all activities entrusted by IREDA under this empanelment and any assignment awarded thereafter. The LIE shall ensure that all inspections, assessments, certifications, monitoring reports, recommendations and professional opinions are based on adequate verification and due diligence and accurately reflect the actual status of the project.

b) Accuracy of Reports and Certifications: The LIE shall be solely responsible for the accuracy, completeness and correctness of all reports, certificates, observations, recommendations and other deliverables submitted to IREDA. The LIE shall not knowingly or negligently submit any report, finding or certification containing inaccurate, misleading, incomplete or false information. Any such act or omission shall constitute a material breach of contract.

c) Liability for Willful Negligence, Misconduct or Malpractice: If any fraud, misrepresentation, diversion of funds, wrongful certification, concealment of material facts, financial loss or any other irregularity in respect of a project financed by IREDA is found to have been caused, facilitated or remained undetected due to wilful negligence, gross negligence, professional misconduct, malpractice, collusion, fraudulent act or material omission on the part of the LIE, its partners, directors, employees, associates or representatives, the LIE shall be held accountable and liable for the consequences thereof in accordance with the terms of this RFP, the Letter of Award, the Agreement and applicable law.

d) Indemnification: The LIE shall indemnify, defend and hold harmless IREDA, its directors, officers and employees from and against any losses, damages, liabilities, claims, costs, charges, expenses, penalties or legal proceedings arising out of or attributable to any wilful negligence, gross negligence, misconduct, malpractice, misrepresentation, breach of professional obligations or fraudulent acts and omissions of the LIE in connection with the performance of its services.

e) Independence and Conflict of Interest: The LIE shall maintain complete independence and impartiality throughout the period of empanelment and assignment. The LIE shall promptly disclose to IREDA any actual, potential or perceived conflict of interest involving the borrower, promoter, EPC contractor, supplier, consultant or any other stakeholder associated with the project. Failure to disclose such conflict of interest may result in termination of assignment, removal from the panel and such other action as deemed appropriate by IREDA.

f) Cooperation with Audit, Vigilance and Investigation: The LIE shall extend full cooperation to IREDA, its internal and external auditors, vigilance authorities, statutory authorities, investigating agencies, regulators and any committee constituted by IREDA for examining any matter relating to the project, including cases involving suspected fraud, misconduct, diversion of funds or other irregularities. The LIE shall provide all relevant records, data, documents, work papers and explanations as may be required by IREDA or any competent authority.

g) Right of Recovery: Without prejudice to any other rights and remedies available under law or contract, IREDA shall have the right to recover from the LIE any losses, damages, costs or expenses incurred by IREDA, to the extent of Fee & Charges payable /paid by IREDA, as a consequence of wilful negligence, malpractice, professional misconduct, misrepresentation, collusion or fraudulent conduct attributable to the LIE.

h) Removal from Panel and Debarment: IREDA reserves the right to suspend, remove or de-empanel the LIE, terminate any ongoing assignment and/or debar the LIE from participation in future assignments, if the LIE is found to have committed wilful negligence, malpractice, professional misconduct, conflict of interest, misrepresentation, collusion, fraud or any act prejudicial to the interests of IREDA. Such action shall be without prejudice to any other contractual, civil or criminal remedies available to IREDA.

i) Record Retention: The LIE shall maintain all project-related records, inspection notes, field observations, photographs, calculations, correspondence, supporting documents and reports pertaining to an assignment for a minimum period of eight (8) years from completion of the assignment or such longer period as may be specified by IREDA or required under applicable law. Such records shall be made available to IREDA whenever called upon to do so.

j) Mandatory Compliances: In accordance with the Reserve Bank of India (Non-Banking Financial Companies - Fraud Risk Management) Directions, 2026, the LIE acknowledges that it may be held accountable in cases where wilful negligence, malpractice, professional misconduct, fraudulent action, collusion or material omission on its part is established as a causative factor in any fraud, misrepresentation, financial irregularity or loss suffered by IREDA. IREDA shall be entitled to take appropriate contractual, financial and legal action in such cases, including recovery of losses, termination of assignment, de-empanelment and reporting of the matter to competent authorities, wherever considered necessary.

1.10. Resolution of Disputes

IREDA and the bidder shall make every effort to resolve amicably, by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the empanelment or work thus awarded. If after thirty days from the commencement of such informal negotiations, IREDA and the Bidder are unable to resolve their dispute amicably; either party may require that the dispute be referred for resolution by formal arbitration.

All questions, disputes or differences arising under and out of, or in connection with the empanelment, shall be referred to two Arbitrators: one Arbitrator to be nominated IREDA and the other to be nominated by the Bidder. In the case of the said Arbitrators not agreeing, then the matter will be referred to an umpire to be appointed by the Arbitrators in writing before proceeding with the reference. The award of the Arbitrators, and in the event of their not agreeing, the award of the Umpire appointed by them shall be final and binding on the parties. THE ARBITRATION AND RECONCILIATION ACT 1996 shall apply to the arbitration proceedings and the venue & jurisdiction of the arbitration shall be at New Delhi.

The Venue of arbitration shall be New Delhi. During Arbitration proceedings, neither of the parties will be entitled to interest pendente lite.

1.11. Governing Law

This empanelment, its meaning and interpretation, and the relation between the Parties shall be governed by the applicable laws of India.

1.12. Applicable Law

The obligations between IREDA and successful Bidder shall be interpreted in accordance with the laws of the Union of India and the Bidder shall agree to submit to the courts under whose exclusive jurisdiction the Corporate Office of IREDA falls.

1.13. Addresses for Notices

Following shall be address of IREDA and Bidder's address for notice purpose:

To,

The Chairman & Managing Director
Indian Renewable Energy Development Agency Limited,
Core – 4A, East Court, 1st Floor, India Habitat Centre,
Lodhi Road, New Delhi -110003

Bidder's address for notice purpose: (To be filled by the Bidder)

Annexure - 8

10) Prescribed Forms:

Form-1

(10.1) - Qualifying Criteria for Bidding Entity:

(Signed and scanned copy of document to be furnished by the bidder)

Name of the (lead) Bidder:

1.	Financially solvent with positive net profit during FY 2025-2026 (Rs. In lakhs)				Net Profit for Fiscal 2025-2026 ……..	
2.	Operational after being Legally incorporated in India for minimum of 3 years as on 31/03/2026) (Attach Certificate of incorporation))				Details of Incorporation	
3.	GST registration No. (copy attached)					
4.	Annual financial turnover not less than limits as applicable (Copy of audited annual accounts attached) (Rs. In Lakhs)				Turnover FY 2023-24 / Turnover FY 2024-25 / Turnover FY 2025-26	
5.	Minimum Annual net worth for FY 2023-24, 2024-25, 2025-26 not less than limits as applicable (Rs. In lakhs)				……	
6.	No. of Full Time Employees from technical field, as applicable, with suitable experience, on the rolls of the bidder. (Copy of recent Group PF / PPF /ESI statement being filed by the bidder with the government)				Please fill the table below for the required details along with Copy of recent Group PF / PPF /ESI statement being filed by the bidder with the government, as per requirement	
	Sr. No	Name of Employee on rolls	Qualification	Total Experience (in years)	No. of projects handled	PF / PPF /ESI no.
	i					
7.	Experience of consulting / construction monitoring / Lender's Engineer, in Renewable Energy Projects/ required or specific sector & technology (refer Annexture -2, of RFP document)				Please fill the table below for the required details along with Copy of assignment letters/ Pos/ Work order/ completion certificate etc., as required	
	Sl. No.	Assignments as LIE/ EPC/ Project Consultant in renewable energy, as desired	Assignment value (in lakhs)	Technology Specific assignment, as desired	Assignment value (in lakhs)	

Note: In case of non-availability of the audited accounts for FY 2025-26 at the date of submission of proposal, audited account of previous FY may be considered. Past 3 FYs (FY 2022-23, 2023-24, 2024-25) account shall be submitted/considered accordingly.

(Signature of duly authorized person on behalf of the bidder)

(Name & Affix official seal of Signatory)

Form-2

(10.2) - Technology Specific Qualifying Criteria:

(Signed and scanned copy of document to be furnished by the bidder)

1. **Name of the Lead Bidder (if applied without Alliance) / Pre-bid alliance partner (if bidding in alliance):**

   Technology Specific Qualifying Criteria, in line with requirement mentioned at Annexture-2, (latest details to be provided)

Sr. No.	Project Name/ Location	Client Name	Project installed capacity (MW)	Start Date	End Date
1					
2					

(*Please attach the award letters of requisite capacity as per the eligibility criteria and in the name of the bidding entity / alliance partner and copy of work completion certificate from the client for applicable years, as per RFP document)*

2. **Senior Technology Expert* employed on full time:**

Technology Experts employed full time	Name of Expert	Post Qualification Experience (No. of Yrs.)	No. of Projects Handled	Remarks / Role
Senior Expert with min qualification of - BE. /B. Tech				

Attach CV of each of the above personnel as per Form - 3.

3. **Junior Technology Expert* employed on full time basis**:

	Name of Expert	Post Qualification Experience (No. of Yrs.)	No. of Projects Handled	Remarks / Role
Senior Expert with min qualification of - BE. /B. Tech				

Attach CV of each of the above personnel

(Signature of duly authorized person on behalf of the bidder)

(Affix official seal of Signatory)

Form-3

(10.3) - Format for Resume:

For Technology Experts (both for Senior & Junior)
(To be submitted for each experts, nos. as applicable/desired in the RFP Annexture-2, under each technologies, separately)

(Signed and scanned copy of document to be furnished by the bidder)

- **General**

Name			
Present Designation			
Technology /Expertise Area (Please tick as applicable)	Technology	Senior Expert	Junior Expert
Qualification(Min of B. Tech) / Year of Passing			
Total Power/RE experience (years)			
Key Assignments completed			
Employed with Bidder since (date)			
Email ID, Contact Nos.			

- **Technology specific Experience: (For example if applying for wind, then experience specific to wind projects only)**

Brief outline of major projects / assignments handled in the last years (as applicable, as per RFP Annexture-2, for Senior or Junior Expert*)

Sl. No.	Name of Project / Assignment	Client	Date of Commencement	Date of Completion	Position held	Scope in brief / project details
Technology Expert of:						
In Existing Firm from_____till date _____						
1						
2						
For previous firms from_____to _____						
1						
2						

**if the same technology expert is being used for more than one technology, the table above shall be filled for each technology respectively, while the other details may remain common.*

Signature of Expert_____

Certification: I, the undersigned, certify that the above is correct to the best of my knowledge and belief.

(Signature of duly authorized person on behalf of the bidder)
(Affix official seal of Signatory)

Form-4

(10.4) - Technology & Category Applied (Please put a Tick mark)

Sl. No.	Description of Technology & Category (Small, Medium, Large, Any)	(Tick Mark)
1.	**Wind**	
a.	Up to 25 MW (Small)	
b.	Above 25 MW & Up to 100 MW (Medium)	
c.	Above 100 MW (Large)	
2.	**Ground Mounted Solar and floating Solar**	
a.	Up to 25 MW (Small)	
b.	Above 25 MW & Up to 100 MW (Medium)	
c.	Above 100 MW (Large)	
3.	**Hybrid**	
a.	Up to 25 MW (Small)	
b.	Above 25 MW & Up to 100 MW (Medium)	
c.	Above 100 MW (Large)	
4.	**Solar Roof Top/ off – grid solar**	
a.	Up to 10 MW (Small)	
b.	Above 10 MW & Up to 50 MW (Medium)	
c.	Above 50 MW (Large)	
5.	**Hydro**	
a.	Up to 10 MW (Small)	
b.	Above 10 MW & up to 25 MW (Medium)	
c.	Above 25 MW (Large)	
6.	**Bio Gas / CBG**	
a.	Up to 10 TPD (Small)	
b.	Above 10TPD (Medium)	
c.	Above 20TPD (Large)	
7.	**Biomass Power /Bagasse co-gen /Waste to Energy/EE**	
a.	Up to 10 MW (Small)	
b.	Above 10 MW & Up to 30 MW (Medium)	
c.	Above 30 MW (Large)	
8.	**Ethanol**	
a.	Up to 100 KLPD (Small)	
b.	Above 100 KLPD & Up to 250 KLPD (Medium)	
c.	Above 250 KLPD (Large)	
9.	**BESS**	
a.	10MW (Small)	
b.	>10MW-50MW (Medium)	
c.	>50MW (Large)	
10.	**Solar Manufacturing (Poly Silicon to Module)**	
a.	Up to 1500 MWp (Small)	
b.	Above 1500 MWp & Up to 3000 MWp (Medium)	
c.	Above 3000 MWp (Large)	
11.	**PM-KUSUM**	
a.	Up to 10 nos. of locations (as per sanction) (Small)	
b.	Up to 30 nos. of locations (as per sanction) (Medium)	
c.	Up to 50 nos. of locations (as per sanction) (Large)	
12.	**Electric Mobility Segment (including manufacturing, as applicable)**	
A.	**Two-wheeler/ three-wheeler/ charging infra / Battery swapping**	
a.	Loan Amount Up to 50 Cr. (Small)	
b.	Loan Amount more than 50 Cr. up to 100 Cr. (Medium)	
c.	Loan Amount more than 100 Cr. (Large)	
B.	**Four Wheelers/ Buses and other heavy vehicles**	
a.	Loan Amount Up to 100 Cr (Small)	
b.	Loan Amount more than 100 Cr. up to 250 Cr. (Medium)	
c.	Loan Amount more than 250 Cr (Large)	
13.	**Smart Metering** (Any Capacity) (including manufacturing, as applicable)	
14.	**Green hydrogen and derivatives production** (Any Capacity) (including manufacturing, as applicable)	
15.	**Electrolyser manufacturing** (Any Capacity)	

Note: *In case of hybrid projects, the LIE will be appointed based on technology which has higher capacity in the hybrid project.*

(Signature of duly authorized person on behalf of the bidder)
(Affix official seal of Signatory

Annexure - 9

(11) Declaration for no Conflict of Interest (to be submitted in case of appointment as LIE)

It is certified that as on date no conflict of interest exists, with any other organization, department or party(ies) with respect to the nature of work we (LIE) are applying for and that during the assignment we will not undertake any assignment/work/job which may affect the interest of the client.

For and on behalf of ……(Name of the firm)

(Name of the Partner)

Membership No. and Stamp (Authorized Signatory)

Annexure - 10

12) INTEGRITY PACT:

Between

Indian Renewable Energy Development Agency Limited

having its Registered Office at Core-4A, East Court, 1st Floor, India Habitat Centre, Lodhi Road, New Delhi – 110003 and its Corporate Office at 3rd Floor, August Kranti Bhawan, Bhikaiji Cama Place, New Delhi – 110066.

hereinafter referred to as

"IREDA"

and

_____

[Insert the name of the Sole Bidder / Lead Partner of Joint Venture]

Having its Registered Office at

_____

[Insert full Address]

_____

hereinafter referred to as

"The Bidder / Contractor"

Preamble

IREDA intends to award, under laid-down organizational procedures, contract(s) for

_____

[Insert the name of the package]

(Signature) _____ (Signature)

(For & on behalf of IREDA) (For & on behalf of Bidder / Partner(s) of Joint Venture / Contractor)

_____-

Integrity Pact

IREDA values full compliance with all relevant laws and regulations and the principles of economical use of resources, and of fairness and transparency in its relations with its Bidders / Contactors.

In order to achieve these goals, IREDA and the above-named Bidder / Contactor enter into this agreement call 'Integrity Pact' which will form a part of the bid.

It is hereby agreed by and between the parties as under: -

Section I – Commitments of IREDA

(1) IREDA commits itself to take all measures necessary to prevent corruption and to observe the following principles:

a) No employee of IREDA, personally or through family members, will in connection with the tender, or the execution of the contract, demand, take a promise for or accept, for him / herself or third person, any material or other benefit which he / she is not legally entitled to.

b) IREDA will, during the tender process treat all Bidder(s) with equity and fairness. IREDA will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process of the contract execution.

c) IREDA will exclude from evaluation of Bids its such employee(s) who has any personnel interest in the Companies / Agencies participating in the Bidding / Tendering process.

(2) If Chairman and Managing Director obtains information on the conduct of any employee of IREDA which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, he/she will inform its Chief Vigilance Officer and in addition can initiate disciplinary actions under its Rules.

Section-II – Commitments of the Bidder / Contractor

(1) The Bidder / Contractor commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution:

a) The Bidder / contractor will not, directly or through any other person or firm, offer, promise or give to IREDA, or to any of IREDA's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he / she is not legally entitled to, in order to obtain in exchange an advantage during the tender process or the execution of the contract.

b) The Bidder / Contractor will not enter into any illegal agreement or understanding, whether formal or informal with other Bidders / Contractors. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or actions to restrict competitiveness or to introduce cartelization in the bidding process.

c) The Bidder / contactor will not commit any criminal offence under the relevant Anti-Corruption Laws of India; further, the Bidder / Contractor will not use for illegitimate purposes or for purposes of restrictive competition or personal gain, or pass on to others, any information provided by IREDA as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d) The Bidder / Contractor of foreign origin shall disclose the name and address of Agents / representatives in India, if any, involved directly or indirectly in the Bidding. Similarly, the Bidder / Contractor of Indian Nationality shall furnish the name and address of the foreign principles, if any, involved directly or indirectly in the Bidding.

e) The Bidder / Contractor will, when presenting his bid, disclose any and all payments he has made, or committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and / or with the execution of the contract.

f) The Bidder / Contactor will not misrepresent facts or furnish false / forged documents / information in order to influence the biding process or the execution of the contract to the detriment of IREDA.

g) A person signing IP shall not approach the Courts while representing the matters to IEM and he/she will wait their decision in the matter.

(2) The Bidder / Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section-III – Disqualification from tender process and exclusion from future contracts

(1) If the Bidder, before contract award, has committed a serious transgression through a violation of Section II or in any other form such as to put his reliability or credibility as Bidder into question, IREDA may disqualify the Bidder from the tender process or terminate the contract, if already signed, for such reason.

(2) If the Bidder / Contractor has committed a serious transgression through a violation of Section II such as to put his reliability or credibility into question, IREDA may after following due procedures also exclude the Bidder / Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder / Contractor and the amount of the damage. The exclusion will be imposed for a minimum of 12 months and maximum of 3 years.

(3) If the Bidder / Contractor can prove that he has restored / recouped the damage caused by him and has installed a suitable corruption prevention system, IREDA may revoke the exclusion prematurely.

(Signature) _____ (Signature)

(For & on behalf of IREDA) (For & on behalf of Bidder / Partner(s) of Joint Venture / Contractor)

Section-IV – Liability for violation of Integrity Pact

(1) If IREDA has disqualified the Bidder from the Tender process prior to the award under Section III, IREDA may forfeit the Bid Guarantee under the Bid.
(2) If IREDA has terminated the contract under Section III, IREDA may forfeit the Contract Performance
(3) Guarantee of this contract besides resorting to other remedies under the Contract.

Section-V – Previous Transgression

(1) The Bidder shall declare in his Bid that no previous transgressions occurred in the last 3 years with any other Public Sector Undertaking or Government Department that could justify his exclusion from the tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section-VI – Equal treatment to all Bidders / Contractors

(1) IREDA will enter into agreements with identical conditions as this one with all Bidders.

(2) IREDA will disqualify from the tender process any bidder who does not sign this Pact or violate its provisions.

Section-VII – Punitive Action against violating Bidders / Contractors

If IREDA obtains knowledge of conduct of a Bidder or a Contractor or his subcontractor or of an employee or a representative or an associate of a Bidder or Contractor or his Subcontractor which constitutes corruption, or if IREDA has substantive suspicion in this regard, IREDA will inform the Chief Vigilance Officer (CVO).

(*)**Section-VIII – Independent External Monitor/ Monitors**

(1) IREDA has appointed a panel of Independent External Monitors (IEMs) for this Pact with the approval of Central Vigilance Commission (CVC), Government of India, out of which one of the IEMs has been indicated in the NIT / IFB.

(2) The IEM is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement. He has right of access to all Project documentation. The IEM may examine any complain received by him and submit a report to Chairman & Managing Director, IREDA at the earliest. He may also submit a report directly to the CVO and the CVC, in case of suspicion of serious irregularities attracting the provisions of the PC Act. However, for ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter shall be referred to the full panel of IEMs, who would examine the records, conduct the investigations and submit report to Chairman & Managing Director, IREDA, giving joint findings.

(Signature) _____ (Signature)

_____

(For & on behalf of IREDA) (For & on behalf of Bidder / Partner(s) of Joint Venture / Contractor)

(3) The IEM is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairman & Managing Director, IREDA.
(4) The Bidder(s) / Contractor(s) accepts that the IEM has the right to access without restriction to all documentation of IREDA related to this contact including that provided by the Contractor / Bidder. The Bidder / Contractor will also grant the IEM, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his documentation. The same is applicable to Subcontractors. The IEM is under contractual obligation to treat the information and documents of the Bidder(s) / Contractor(s) / Subcontractor(s) with confidentiality.
(5) IREDA will provide to the IEM information as sought by him which could have an impact on the contractual relations between IREDA and the Bidder / Contractor related to this Contract.
(6) As soon as the IEM notices, or believes to notice, a violation of this agreement, he will so inform the Chairman & Managing Director, IREDA and request the Chairman & Managing Director, IREDA to discontinue or take corrective action, or to take other relevant action. The IEM can in this regard submit non-binding recommendations. Beyond this, the IEM has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the IEM shall give an opportunity to IREDA and the Bidder / Contractor, as deemed fit, to present its case before making its recommendations to IREDA.
(7) The IEM will submit a written report to the Chairman & Managing Director, IREDA within 8 to 10 weeks from the date of reference or intimation to him by IREDA and, should the occasion arise, submit proposals for correcting problematic situations.
(8) If the IEM has reported to the Chairman & Managing Director, IREDA, a substantiated suspicion if an offence under relevant Anti-Corruption Laws of India, and the Chairman & Managing Director, IREDA has not, within the reasonable time taken visible action to proceed against such offence or reported it to the CVO, the Monitor may also transmit this information directly to the CVC, Government of India.
(9) The word **'IEM'** would include both singular and plural.

(*) This section shall be application for only those packages wherein the IEMs have been identified in Section-I: Invitation for Bids and / or Clause ITB 9.3 in Section –III: Bid Data Sheets of Conditions of Contract, Volume-I of the Bidding Documents.

Section-IX –Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor after the closure of the contract and for all other Bidder's six month after the contract has been awarded.

Section-X – Other Provisions

(1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the establishment of IREDA. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
(2) Changes and supplements as well as termination notices need to be made in writing.
(3) If the Contractor is a partnership firm or a consortium or Joint Venture, this agreement must be signed by all partners, consortium members and Joint Venture partners. In case of sub-contracting, the Principal Contractor shall take responsibility of the adoption of IP by the sub-contractor

(Signature) _____ (Signature)

(For & on behalf of IREDA) (For & on behalf of Bidder / Partner(s) of Joint Venture / Contractor)

(4) Nothing in this agreement shall affect the rights of the parties available under the General Conditions of Contract (GCC) and Special Conditions of Contract (SCC).

(5) Views expressed or suggestions / submissions made by the parties and recommendations of the CVO/IEM[#] in respect of the violation of this agreement, shall not be relied on or introduced as evidence in the arbitral or judicial proceedings (arising out of the arbitral proceedings) by the parties in connection with the disputes / differences arising out of the subject contract.

[#] *CVO shall be applicable for packages wherein IEM are not identified in Section IFB / BDS for Condition of Contract, Volume-I. IEM shall be applicable for packages wherein IEM are identified in Section IFB/BDS of Condition of Contract, Volume-I.*

(6) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(Signature) _____ (Signature)

_____

(For & on behalf of IREDA) **(For & on behalf of Bidder / Partner(s) of Joint Venture / Contractor)**

(Office Seal) (Office Seal)

Name: _____ Name:

_____

Designation: _____ Designation:

_____

Witness1: _____ Witness1:

_____

(Name & Address) _____ (Name & Address)

_____

_____

Witness 2: _____ Witness2:

_____

(Name & Address) _____ (Name & Address)

_____

_____

_____

_____

_____

_____

_____

Integrity Pact

Annexure – 11

13) Authorized letter for signatory authority of the applicant: