

**EMPANELMENT OF BATTERIES**  
**(Guidelines and Application Form)**



**AGENCY FOR NEW AND RENEWABLE ENERGY AND RESEARCH TECHNOLOGY**

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**APPLICATIONS FOR EMPANELMENT OF ORIGINAL EQUIPMENT MANUFACTURERS**  
**(OEM) IN ANERT FEB-2020**

**Instructions to fill the online application form:**

1. Please read the OEM empanelment document thoroughly.
2. Please make all the annexures and forms ready in PDF format before filling the application.
3. Please refer to “checklist for document submission” in the last page of OEM Empanelment document.
4. The “**category**” refers to either PV Module, Inverter or Batteries.
5. Empanelment fee of Rs.25,000 is for one category.
6. The form submission is one time for each category. A separate form has to be submitted for each subsequent category
7. If an OEM is applying for more than one category (Eg: PV Module and Battery), then the OEM shall pay separate OEM Empanelment fees along with the product (s) fee.

For example: Rs.25000/- as empanelment for PV module + No: of products x 3000/- & Rs.25000/- as Empanelment for Battery + 3000/- per product.

8. For each product, a Technical Details Form with its corresponding IEC/IS certificates and Data Sheets must be made submitted as a single PDF file.
9. The duly signed undertakings (2 nos.) on stamp papers shall be sent to **Director, ANERT** immediately after the online submission before 11-03-2020, superscribed as **Attn: Ajith Gopi, Programme officer, ANERT** in the envelope.

The Director  
ANERT  
PMG - Law College Road  
Vikas Bhavan P.O.  
Thiruvananthapuram,  
Kerala - 695 033

10. For any queries or clarifications, please write to [solarpv@anert.in](mailto:solarpv@anert.in)

## NOTICE

### **Application for the Empanelment of Battery**

Ref: ANERT-TECH/40/2020- PO(AG)

ANERT invites direct applications from the reputed manufactures of Batteries for the empanelment process. The company's desire to apply for the process must submit a cover letter and attach the details as per the format, along with the detailed datasheet of Battery. Applications must be submitted online on or before 11-03-2020 along with the application fee.

Copy of documents to be attached:

1. Cover letter for the submission on letterhead.
2. Manufacturer Registration certificate (Annexure-1)
3. Company profile (Restricted to 5 pages)
4. Application for the Empanelment of Batteries (Form 1)
5. GST Registration Certificate (Annexure-2)
6. Acknowledgement of online payment (Annexure 3)
7. Technical details (Form 2)
8. List of Battery (s) to be submitted for Empanelment (Form 3).
9. Undertakings as per the enclosed format (Annexure 4, 5)
10. Audited certificate of year wise Turnover of the firm. (Annexure-6)
11. Manufacturing plant certifications (Annexure-7)
12. IS/IEC certifications. (Annexure-8)
13. Data Sheets (Annexure-9)

Application fee – 25,000/- (NEFT/ RTGS) + 3,000 (For each product Empanelment)

Bank: State Bank of India  
LIC Junction Branch  
Pattom, Thiruvananthapuram

Name: Director ANERT  
Account number: 67242882331  
IFSC: SBIN0070212

Note: Please refer to the guidelines on specification before filling the form.

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## 1. GENERAL INSTRUCTIONS

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1. Only Original Equipment Manufacturer (OEM) is eligible for empanelment in ANERT.
2. The OEM shall be either Proprietary/ Limited Company/ PSU registered in India with a valid Company Registration Certificate. Please attach the registration certificate as Annexure 1.
3. The OEM shall be in the concerned business for last two years in India.
4. The firm should have registration number with GST. Please attach the GST certificate as Annexure 2.
5. The interested OEMs of inverters shall submit the application through the link of ANERT website [www.anert.gov.in](http://www.anert.gov.in).
6. Empanelling manufacturers of batteries will be conducted once in 3 months.
7. The Applicant shall pay an Empanelment Fee of Rs.25000/- initially and annual fee of Rs 5000/- in subsequent years. In addition to the above amount, the Manufacturer shall pay additional payments at the rate of Rs 3000/- for each product to be empanelled in ANERT.

The payment shall be done through NEFT/RTGS to the following account and the details (UTR No, Name of the Remitter, Date of Payment, Total Amount Paid, the Split up of Payment, Bank from which the Payment is made) shall be furnished in the space provided in Form -1. Please attach online payment acknowledgment as Annexure 3.

**The Director, ANERT**

**Acc No : 67242882331**

**Bank : State Bank of India**

**Branch : LIC Junction, Pattom, IFSC : SBIN0070212**

8. The Empanelment is valid as per the validity of the corresponding certifications (IEC/IS etc.) provided the OEMs renews their Empanelment status by paying the annual fee of Empanelment Status.
9. All the IEC certifications listed as per the Section 6 are mandatory except the recommended (\*) ones.
10. During the selection of OEMs, ANERT may ask for any clarifications, if any, with a tentative deadline.
11. Qualified OEMs will be Empanelled and notified by ANERT and will be given User Name and Password for uploading their products at ANERT through BuyMySun Portal, which will be verified, approved and published.

12. The Manufacturer shall submit the IEC certificates along with test reports of batteries as per technical specifications with respective filled Performa (Form-2) for each product and corresponding Data Sheets. The batteries should be tested from the MNRE approved test centers / NABL/ BIS/ IEC accredited testing-calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses.
13. The battery type shall be Lead Acid LMLA/Lead Acid –VRLA ( SMF or Lead Acid GEL) / Lithium Ferro phosphate
14. The inverter manufacturers shall have a minimum one number of **service assistance unit / service partner** in Kerala State. The manufacturers should provide the details of service assistance unit / service partner with address, name of the contact person, mobile no. and email ID etc. (Form -1). If the manufacturer does not have a service assistance unit / service partner in Kerala, the firm should give an undertaking stating that the firm will set up a service assistance unit or arrange a service partner in Kerala, once empanelled.
15. The manufacturers shall furnish the minimum warrantee certificate (OEM warrantee) of minimum 5 years for the batteries offered for empanelment and 10 years for Lithium ion battery.
16. The manufacturers shall submit an undertaking on a non-judicial stamp paper of Rs.200/- for providing service support during the entire warrantee period. Please attach the undertaking as Annexure 4.
17. The manufacturers shall submit an undertaking on a judicial stamp paper worth of Rs200/- stating that they have not been blacklisted by any of the DISCOM's /MNRE/ State Nodal Agencies (SNA) in the past. Please attach the undertakings as Annexure 5.
18. ANERT will conduct factory visits and witness the manufacturing process and tests, If found to be necessary
19. ANERT reserves the right to delist such of the manufacturers from the empanelment list in case the performance and service of batteries is not satisfactory within the guaranteed period.

## 2. DETAILS OF BATTERY & MANUFACTURERS

The battery manufacturer shall submit the following details in the company letter head, duly signed by the signing authorities.

### FORM - 1

Sl No:	Particulars	Details		
1.	Name of the Firm.			
2.	Address of the Firm with Telephone/ Fax no., E-mail Web-site address.			
3.	Address of the Manufacturing Unit.			
4.	Name of the Authorized Contact Person with Mobile No. and E-mail address.			
5.	Type of Firm Whether Proprietary/ Limited Company/ Society/ PSU			
6.	Annual Capacity of Battery Manufacturing Plant			
7.	Year wise Turnover of the firm for last years Attach audited certificate as Annexure 6	2016-17	2017-18	2018-19
8.	Whether Plant qualifies to any international Standards: ISO 9000 ISO14000/ Any other standards. Please attach the document as Annexure no. 7			
9.	Details of Test Certificates of Battery (Refer Section 4, “ <b>Standards and Certifications</b> ”). <b>Please attach as Annexure 8</b>			
10.	Type of batteries being Manufactured by the Firm Lead Acid LMLA/Lead Acid –VRLA or SMF/Lead Acid GEL/ Lithium ion (Lithium			

	Ferro Phosphate)  (attach detailed range of batteries being manufactured)	
11.	List of Battery Products to be empanelled with ANERT (Attach the complete list of Battery Products to be empanelled with ANERT. Attach the list with the battery (Ah) and Data Sheet for each as Annexure -9).	
12.	Whether blacklisted by any of the Government Institution (Central/State Governments) or State Nodal Agency in the past.	
13.	Online payment details (Name of the remitter, UTR no: and date of payment) of Empanelment fee (Rs 25,000 + Rs 5,000 Each for different products).	

**Name & Signature of Authorized person with seal  
of the company**



### 3. BATTERY TECHNICAL DATA SETS

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#### FORM 2

##### 1.1 Electrical Parameters

Sl No:	Parameters	Data/ Values	Remarks
1	Nominal Capacity (Ah) @C10		
2	Nominal voltage (V)		
3	Nominal Voltage per Cell (V)		
4	Float Voltage		
5	Temperature compensation required for proper operation		

##### 2.2 Mechanical Characteristics

Sl No:	Parameters	Data/ Values	Remarks
1	Dimensions L X W X H (mm)		
2	Weight (kg)		
3	Operating temperature (°C)		
4	Shelf Life		

**Note:**

- 1. The manufacturers must submit the above parameters of Battery for the Empanelment. (Separate copies shall be submitted for each Battery Product)**
- 2. The lithium ion battery manufacturers shall fill the appropriate columns and shall add more parameters if necessary.**

**4. LIST OF BATTERY PRODUCTS SUBMITTED FOR EMPANELMENT**

**FORM 3**

<b>SL No:</b>	<b>Make</b>	<b>Model</b>	<b>Type of Battery</b> (Lead Acid LMLA/Lead Acid –VRLA or SMF/Lead Acid GEL/ Lithium Ferro Phosphate)	<b>*</b> <b>IEC 61056</b>	<b>IS 1651 (Recommended)</b>	<b>IEC 60896</b>	<b>IEC 61427</b>	<b>*</b> <b>IS 16220 (Recommended)</b>	<b>**</b> <b>IEC 62133</b>	<b>**</b> <b>IEC 62620</b>	<b>Datasheet (✓)</b>
1											
2											
3											
4											
5											
6											

\*This is applicable for VRLA Battery  
 \*\*This is applicable for Lithium Ferro Phosphate Battery

**Note: Please tick the IEC certifications submitted along with the corresponding make.**

## 5. SPECIFICATIONS FOR BATTERY

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The specifications of Battery are discussed below;

### a. Technical Requirements

Sl No:	Parameters
1	Nominal Capacity (Ah) shall be rated @C10
2	Minimum Nominal voltage (V): 2V / Lithium ferro phosphate: 3.2V
3	Self-discharge (less than 3% per month at 30°C)

### 5.1 General Specifications:

- i. Test certificate submitted should qualify the minimum requirements as per above standards for capacity test, ampere-hour efficiency test, watt-hour efficiency test, self-discharge test.
- ii. Battery (Lead Acid LMLA/Lead Acid –VRLA or SMF/Lead Acid GEL) shall have a Warrantee of minimum 5 years and Lithium Ferro Phosphate Battery shall have a warrantee of minimum 10years
- iii. Battery capacity is rated C/10 at 27°C
- iv. Original Equipment Manufacturers (OEM) Warrantee of Battery shall be submitted

## 6. STANDARDS AND CERTIFICATIONS

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Batteries shall comply with the specified edition of the following standards and codes.

Standard	Description
IEC 61427	IEC 61427 - This series gives general information relating to the requirements for the secondary batteries used in photovoltaic energy systems (PVES) and to the typical methods of test used for the verification of battery performances.
IEC 60896	This part of IEC 60896 applies to all stationary lead-acid cells and Monobloc batteries of the valve regulated type for float charge applications, (i.e. permanently connected to a load and to a d.c. power supply), in a static location (i.e. not generally intended to be moved from place to place) and incorporated into stationary equipment or installed in battery rooms for use in telecom, uninterruptible power supply (UPS), utility switching, emergency power or similar applications.
IEC 61056*	IEC 61056-1:2012 specifies the general requirements, functional characteristics and methods of test for all general-purpose lead-acid cells and batteries of the valve-regulated type
IS 16220* (Recommended)	IS 16220 defines the general requirements, functional characteristics and methods of test for all general-purpose lead-acid cells and batteries of the valve- regulated type.
IEC 62133-2: 2017**	IEC 62133 requirements and tests for the safe operation of portable sealed secondary lithium cells and batteries containing non-acid electrolyte, under intended use and reasonably foreseeable misuse.
IEC 62620:2014**	IEC 62620 defines marking, tests and requirements for lithium secondary cells and batteries used in industrial applications including stationary applications.

\* This applies to VRLA batteries.

\*\* Applies for Lithium ferro phosphate batteries

## 7. LIST OF ANNEXURES

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The manufacturers must attach the list of annexures as per the attached format:

<b>Sl No:</b>	<b>ANNEXURES</b>	<b>DESCRIPTION</b>
1	Annexure 1:	Manufacturer registration certificate.
2	Annexure 2:	GST Certificate.
3	Annexure 3:	Acknowledgement of Online Payment.
4	Annexure 4:	Undertaking on service support.
5	Annexure 5:	Undertaking stating that firm has not been blacklisted in SNA/ MNRE/ DISCOM.
6	Annexure 6:	Year wise turnover of the firm for last 3 years.
7	Annexure 7:	Manufacturing plant certifications (ISO 9000/14000/ Others).
8	Annexure 8:	IS/ IEC certifications.
9	Annexure 9:	Data sheet of Inverters.

## 8. CHECKLIST FOR DOCUMENT SUBMISSION

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The Empanelment manufactures must submit all the documents as per the attached format.

SI No:	ANNEXURES	Remarks	Checklist (✓)
1	Cover letter on letterhead of the firm.		
2	Battery manufacturer registration certificate.		
3	Company profile.		
4	Details of Battery and manufacturers (Form 1)		
5	Battery technical data sets (Form 2)		
6	List of Battery submitted for Empanelment (Form 3)		
7	Warranty certificate.		
8	Name and Receipt/ UTR/ Acknowledgement of online payment.		
9	List of Annexures.		