SCHEDULE 3

(see to regulation 4(3)(b)

Obligations of Certified Installers

A certified installer shall:

1. educate the customer about the project equipment, its performance and its installation method;

2. provide, at minimum, the following warranties for the equipment and the project as a whole and shall include the same in the customer agreement:

    (a) Warranty for PV modules or wind turbine generators (WTGs) against manufacturing defects – 10 years

    (b) Standard performance warranty for PV modules/WTGs – 25 years

    (c) Workmanship including locally supplied parts (except frames) – 5 years

    (d) Mounting frames and associated parts –10 years minimum (that can be up to 25 years if opted or required by the customer)

    (e) Grid tie invertors – 5 years

    (f) Hybrid invertors – 1 years

    (g) Annual Energy Yield - [• kWh/year], subject to the following conditions:

        i. No tampering by unauthorized personnel

        ii. Regular maintenance services hired from Installer

        iii. Not valid under force majeure condition, natural or man-made disasters

        iv. Yield could vary + / - 10% depending upon location;

3. rectify a breach of warranty at its own cost within fourteen (14) days of breach of warranty and shall pay appropriate compensation to the customer on installer's failure to rectify the breach of warranty as aforesaid;

4. not conceal or misrepresent any fact which affects the customer's decision in agreeing to the installation of the project be the certified installer;

5. include, at minimum, the details given in schedule 4 to these regulation in the customer agreement which shall be entered into by the certified installer on the stamp paper of requisite value before commencing installation or related services to the customer;

6. ensure that the bank guarantee remains valid for entire period of the certificate and, where applicable, is timely extended at least one (1) month prior to its expiry; and further agrees with and acknowledges the Board's right to encash the bank guarantee without any notice

or recourse to the certified installer where the certified installer is in breach of these regulations or the customer agreement;

7. ensure that each project and the equipment comprised therein is compliant with the following standards and specifications:

    i. Underwriter laboratories UL1741 standards and addresses the electrical interconnection design of various forms of generating equipment (as amended from time to time);

    ii. IEEE 1547 2003 (as amended from time to time);

    iii. IEC 61215 (as amended from time to time);

    iv. any other standards and specifications as specified by Board on its website or any other competent authority;

8. furnish to the Board, every six (6) months, particulars of the projects specifying the location, installed capacity and the customer's name, address and contact details in the proforma available on the Board's website;

9. take all appropriate safety measures specified by the Board or any other competent authority from time to time with respect to installation practices and methods;

10. not install a project exceeding the capacity of its respective certification category under these regulations and the license;

11. where it intends to expand its services to any province or Islamabad Capital Territory during the period of certification, get itself registered with the tax authorities under the relevant sales tax on services law for that province(s) or Islamabad Capital Territory and provide certified copy of such registration to AEDB prior to undertaking such services;

12. for net metering project,:

    a. ensure that the net metering connection is approved by the relevant distribution company (DISCO) and the generation license is granted by the National Electric Power Regulatory Authority (NEPRA) within one hundred and twenty (120) days from the date of the customer agreement;

    b. inform the Board and the Customer in writing explaining the delay (if any) by the DISCO or NEPRA in processing of the relevant documentations; and

13. perform the following activities, namely:-

    i. undertake 'net metering' promotional activities for creating public awareness, such as road shows, distributing flyers, participating in exhibitions, targeting industries/ educational institutions/ businesses, independently as well as collectively for promotion of net metering all over Pakistan. If needed, also participate in the training workshops and seminars;

ii. coordinate and work with the distribution companies, the regulatory bodies and other relevant public sector entities to expand the net metering connections portfolio at all customers' levels all over the country;

iii. act as one stop shop and provide services to the customers to process their applications for net metering from start till the energization of net metering connections;

iv. coordinate with the distribution companies for resolution of complaints regarding metering on priority; and

v. participation in the meetings if and when called by Board for sharing progress, highlighting any issues faced in processing net metering applications etc.

SCHEDULE 4

(see to para 5 of schedule 3)

1 Material Particulars of the Customer and the Project

Customer	Name, CNIC, Address
Installer	...
Project Description	[•kw] [wind] / [solar] power generation system, with
Project Location	
Commencement	
Completion	
Net Metering or without Net Metering	
Minimum Warranties	
Additional Warranties (if any)	
Inclusions in the Project Scope	[system design] [processing of net-metering consents and licenses with NEPRA, DISCO, etc][7]
Exclusions from the Project Scope	

2 Products and Components to be supplied by the Installer for the Project for a solar PV project

S#	Product description	Brand	S# of Equipment	Remarks	Performance expectancy
1	PV Modules				

[7] Illustrative only

2	Inverter				
3	DC cables				
4	AC cables				
5	PV frames				
6	Earthing				
7	AC breakers, fuse links				
8	DC breakers and fuse links				
9	AC surge protectors				
10	DC surge protectors				
11	Residual Current detector (RCD)				
12	Bus bar				
13	Manual disconnect				
14	Any other accessories/attachments				

3 Products and Components to be supplied by the Installer for the Project for a wind project

S#	Product description	Brand	S# of Equipment	Remarks	Performance expectancy
1	WTG				
2	Inverter				
3	DC cables				
4	AC cables				
5	PV frames				
6	Earthing				
7	AC breakers, fuse links				
8	DC breakers and fuse links				
9	AC surge protectors				
10	DC surge protectors				
11	Residual Current detector (RCD)				
12	Bus bar				
13	Manual disconnect				
14	Any other accessories/attachments				

[F.No. Tariff/AEDB-2021]

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Section Officer