

Document Checklist for approval of equipment/appliances under IDCOL SHS, TR/KABIKHA programs

- **Photovoltaic Module:**

1. Forwarding letter to ED and CEO of IDCOL mentioning model number, capacity of solar modules i.e. ABC-85 (85Wp) and details of the contact person.
2. **Test report for 2 samples of each model from Bangladesh University of Engineering and Technology (BUET).**
3. IEC 61215 certificate for crystalline modules and IEC 61646 for thin film modules.
4. ISO 14001:2004/2005 and OHSAS 18001:2007 certified from a certification body approved by International Accreditation Forum (IAF) or American International Accreditation Organization (AIAO).
5. Environmental clearance certificate from the Department of Environment.
6. Environmental and Health Safety (EHS) Assessment report/ISO 14001:2004[2005] and OHSAS 18001:2007 compliance report.
7. Data specification sheets for all models from the manufacturer.
8. Warranty certificate from the module manufacturer.
9. Agency agreement between the supplier and the manufacturer.
10. Audit report.
11. Company Profile mentioning years of operation, area of operation and status of sister concern organizations etc.

- **Application Guideline for Photovoltaic Module:**

1. Model names of the PV modules must be identical and highlighted in all submitted documents.
2. Model names of the PV modules must be unique to avoid confusion with other applied models.
3. Application only for the solar panels within the range of 10-300Wp will be considered.

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4. The panel supplier has to prove adequate response on proper implementation of EHS through documentation and physical arrangement. In case of inadequate response, they could be asked to submit EHS implementation report of six months period.

Test Report of Photovoltaic Modules should include the following data at STC:

1. I-V and P-V characteristics
2. Output (Wp)
3. Open circuit voltage (Voc)
4. Short circuit Current (Isc)
5. Voltage at Maximum Power (Vmp)
6. Current at Maximum Power (Imp)
7. Efficiency ($\eta\%$)
8. Fill Factor (FF)
9. Maximum System Voltage (V)

• **Battery:**

1. Forwarding letter to ED and CEO of IDCOL mentioning model name and capacity, details of the contact person.
2. Test report from any of the following institutions:
 - i) Bangladesh University of Engineering and Technology (BUET).
 - ii) Khulna University of Engineering and Technology (KUET).
 - iii) Chittagong University of Engineering and Technology (CUET).
 - iv) Rajshahi University of Engineering and Technology (RUET).
 - v) Dhaka University of Engineering and Technology (DUET).
 - vi) United International University (UIU).
 - vii) East West University (EWU)
3. Data specification sheet.
4. Warranty certificate.
5. ISO 14001:2004/2005 and OHSAS 18001:2007 certified from a certification body approved by International Accreditation Forum (IAF) or American International Accreditation Organization (AIAO).
6. Environmental clearance certificate from the Department of Environment. In case of imported battery the battery supplier has to submit Environmental Clearance Certificate as is issued by the respective entity of the respective country.
7. Environmental and Health Safety (EHS) Assessment report/ISO 14001:2004[2005] and OHSAS 18001:2007 compliance report.
8. Design detail of Effluent Treatment Plant (ETP) and Air Treatment Plant (ATP).
9. Document regarding installation of safety shower and emergency eye-wash facilities in the manufacturing plant.
10. A legally approved contractual arrangement with IDCOL en-listed expired battery recycler.
11. Audit report.

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12. Company Profile mentioning years of operation, area of operation and status of sister concern organization etc.

N.B. The battery supplier has to prove adequate response on proper implementation of EHS through documentation and physical arrangement. In case of inadequate response, they could be asked to submit EHS implementation report of six months period.

• **Charge Controller/inverter/CFL/LED lamp or tube light/ DC-DC Converter/ Optimizer/Cable/TV/Fan:**

1. Forwarding letter to ED and CEO of IDCOL mentioning model name and capacity, details of the contact person.
2. Test report from any of the following institutions:
 - i) Bangladesh University of Engineering and Technology.
 - ii) Khulna University of Engineering and Technology.
 - iii) United International University.
 - iv) East West University.
3. Data specification sheet.
4. Warranty certificate.
5. Audit report.
6. Company profile mentioning years of operation, area of operation and status of sister concern organizations etc.

• **Solar Street Light:**

• **Application Guideline:**

1. Approval of Solar Street Lights will be given as a complete package (LED, Charge Controller and Battery). Approval of any individual component of the Solar Street Light will not be given. The suppliers have to apply for Solar Street Lights as a complete package and mention the components and their specification in the application.

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2. Any alteration of the package description is not allowed. Any change in any of the package component will be considered as a new package and suppliers have to apply separately for the new package.
3. Combination of approved components to create a new package is not allowed if it is not declared and applied as a new package.
4. Each Component of the Solar Street Light has to be tested individually.
5. The applicant must submit the abovementioned documents for each component.
- 6. The applicant must provide necessary warranty for the entire system**

Notable that, the solar street light system has to IP-65 tested and test report must be included with the Application package.

- **Fee (To be paid in pay order in favor of 'Infrastructure Development Company Limited')**

| Item | Fee per model | VAT @ 15% | Total Fee (Including VAT) |
|---|----------------------|------------------|----------------------------------|
| Solar Panel | BDT 10,000 | BDT 1,500 | BDT 11,500 |
| Battery | BDT 10,000 | BDT 1,500 | BDT 11,500 |
| Charge Controller/inverter | BDT 5,000 | BDT 750 | BDT 5,750 |
| CFL/LED lamp/tube light/bulb | BDT 5,000 | BDT 750 | BDT 5,750 |
| Optimizer (DC-DC Converter)/ Energy meter/Cable/TV/Fan | BDT 5,000 | BDT 750 | BDT 5,750 |