

**GOVERNMENT OF THE REPUBLIC OF THE
UNION OF MYANMAR
Ministry of Cooperatives and Rural Development
Department of Rural Development**

**The Project to be Implemented with the Special Fund of the
Mekong-Lancang Cooperation**



**CALL FOR PROPOSALS
for
Engineering, Procurement, Construction and
Operation of Mini-grid Projects in Rural Villages**

**Off-grid Rural Electrification Programme
(Re-Invitation)**

(Nov 2023)

INVITING MINI-GRID DEVELOPERS TO ENGINEER, PROCURE, CONSTRUCT AND OPERATE MINI-GRIDS BELOW 1 MW CAPACITY

INTRODUCTION

The Department of Rural Development (DRD) of the Ministry of Cooperatives and Rural Development (MCRD) is undertaking sustainable rural development measures to improve the quality of life of people living in rural areas. DRD is the focal department for rural development in Myanmar and, as such, has the mandate to electrify rural villages and, in so doing, to enhance the livelihoods of remote communities.

The electrification service of DRD helps to achieve universal access to electricity services through a combination of both on-grid and off-grid solutions. The off-grid rural electrification programme, administered by DRD, leverages two types of technology: solar home systems (SHS) and mini-grids¹.

OFF-GRID RURAL ELECTRIFICATION PROGRAMME

The off-grid rural electrification programme targets the most distant and inaccessible communities in the areas where the national grid is unlikely to reach in the next ten years or more. In addition to enhanced well-being through electricity for domestic lighting, telecommunications and entertainment, this component also contributes to socio-economic development by promoting productive use of electricity (e.g. rice mills, oil presses, workshops), providing connections for public facilities (e.g. streetlights, community centers, health clinics) and enabling the inclusion of marginalized groups, such as low-income and female-headed households, people with disabilities, students, and ethnic and religious minorities. The mini-grid sub-component supports electricity

¹ Mini-grids are defined as an isolated power generation and distribution system which supply one or more villages which are most unlikely to electrify through national grid extension in the near future.

generation and distribution through renewable energy-based mini-grids. Applicable technologies include solar, hydropower, biomass and wind².

MINI-GRID CALL FOR PROPOSALS

Rural Electrification Division of DRD (Head Office) is calling for proposals from private project developers to invest in, co-own, engineer, procure, construct, operate and manage mini-grid projects with less than one megawatt (MW) generative capacity in remote areas which are most unlikely to be electrified via national grid extension within the next 10 years. Selected projects will be entitled to receive a grant of up to 60% of the total capital expenditure (CAPEX) from the Government budget, which is supported with the Mekong-Lancang Special Fund Government of Myanmar's national budget.

Throughout the project development process, The Rural Electrification Division of DRD (HO) will provide support through the provision of capital grants, capacity building and community mobilization with assistance from DRD at both the union and township levels.

The detailed Call for Proposals (CfP) process is outlined within this document. All supporting documents are available at DRD website

PROPOSAL SUBMITTAL

Interested local and international developers are expected to review the CfP documentation thoroughly and to understand the mini-grid project submission criteria, evaluation criteria, and project implementation and operation processes.

Prior to the submission of a mini-grid project proposal, companies are required to complete the *Mini-Grid Developer Registration Form (Registration Docs. 1 and 2)*, which solicits, among other things, additional information about annual revenues of the registrant for the previous three financial years³. In the event that the prospective developer is selected to receive a Mekong Lancang Special Fund and DRD's subsidy, the developer must provide certified audited financial statements for last three years.

² Note: Renewable energy-based mini-grids may be coupled with diesel generators to create hybridized generation solutions

³ In the event that the company has been operating for less than three years, it may submit the maximum number of available financial records and will need to provide proof of funds to carry out the proposed mini-grid project/s at proposal submission stage.

Companies may submit an unlimited number of project proposals, in accordance with their own technical, financial and managerial capacity.

Mini-grid project proposals are to be submitted in the form of a Pre-Feasibility Study (Pre-FS) Proposal, as per Section 13 of this document. The Pre-FS Proposal shall be submitted in hard copy duplicate (one original and one copy) as well as in digital format (PDFs, spreadsheets, software working files , etc.), in English Language, to the PMO. The CfP must be delivered to the address below at 10:00 AM local time on 5th Dec 2023 .

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Director, Rural Electrification Division
Office No.36, Department of Rural Development,

Naypyitaw. Telephone/Fax: +95 673 418635, 673 418 636

Email address: drdnepmg@gmail.com ,ksaung@gmail.com, myomyonpd@gmail.com, PL.hq@drdmyanmar.net

Section I. Instructions to Bidders

1. Overview of the Call for Proposals

The off-grid rural electrification programme aims to electrify areas of rural Myanmar which are most unlikely to be electrified using national grid extension in the near future. With this CfP, DRD invites project developers to engineer, procure, construct, and operate renewable energy mini-grids (or renewable-plus-diesel hybrid mini-grids) for the following projects, which are less than 1 MW in a Public-Private Partnership arrangement.

Lot-1: Kan Seik Solar Mini-grid Electricity Supply and Water Supply Distribution Project

Lot-2: Kyein Mae Taung Solar Mini-grid Electricity Supply and Cold Storage for Fishery Products Project

1)2)

The mini-grids are to provide reliable year-round electricity services to households, businesses and public service facilities, including street lights, at tariffs that the community has the ability and willingness to pay. The business model is one whereby the project developer, together with the community, will invest equity into the project and DRD will provide a grant contribution to the community to cover the remaining equity requirement. This grant will contribute up to 60% of the total CAPEX with the exact amount being decided by DRD on the basis of the project proposal evaluation result.

Project developers will be entitled to operate the mini-grids for a maximum period of 15 years (the exact period of operation is to be determined as part of a comprehensive business model and agreed with DRD and the respective communities) and are expected to supply 24-hour, grid-quality electricity during this time³. After the developer's period of operation, the mini-grid assets are to be transferred to the local Village Electrification Committee (VEC) for continued operation. For this reason, all mini-grids developed under the CfP shall be classified as Build, Operate, Transfer (BOT) or Build, Own, Operate, Transfer (BOOT).

Throughout this process, in addition to the capital grant support, DRD will provide capacity building and community mobilization assistance via DRD township offices.

To participate in the CfP, prospective developers shall submit a Pre-FS Proposal as per **Support Doc. 16: Pre-Feasibility and Feasibility Study Components**, **Support Doc. 1: Mini-Grid Guidelines** and the additional supporting documents provided in Section III of this document.

The Pre-FS Proposal will be evaluated according to the criteria specified in **Support Doc. 17: Evaluation of Mini-Grid Projects for Subsidy**.

Shortlisted projects will be required to submit a full Feasibility Study (FS) Report, as per the time schedule given by Rural Electrification Division (HO). The FS Report will be similarly evaluated according to the criteria specified in **Support Doc. 17: Evaluation of Mini-Grid Projects for Subsidy**, adopting similar criteria as the Pre-FS Proposal evaluation, but in greater depth.

2. Project Subsidy and Technical assistance

Prospective developers whose FS Reports are approved during the evaluation processes will be eligible to receive a construction subsidy in the form of a capital grant worth **up to 60%** of the total project cost, and technical and social mobilization assistance. The equity share of the remaining balance is to be agreed between the Developer and the respective VEC, the community contribution, can be made in cash or in kind,

Prospective developers may freely request a reduced subsidy (or no subsidy at all), depending on their own business model. In the event that a developer would like to invest 100% of the total

³ Biomass mini-grids may be exempt from the 24-hour requirement on a case-by-case basis.

In bad weather condition, diesel engine is allowed to operate part time on a case that fuel cost is high about 3 times.

project cost, DRD can still offer technical backstopping and community mobilization assistance as part of the CfP. **Reference Doc. 2: Mini-Grid Tripartite Agreement for Developer-Owned Projects** outlines more details on this approach and the prospective developer may contact the Rural Electrification Division (HO) for more details.

For projects where a subsidy is approved, payments will be disbursed as per **Reference Doc. 4: Payment Procedure for Mini-Grids** and based on the fulfillment of agreed milestones. The details of this will be outlined in the *Mini-Grid Tripartite Agreement for Construction Subsidy* (**Reference Docs. 1**) signed by the DRD, the Developer and the VEC(s).

The *Mini-Grid Tripartite Agreement* (**Reference Doc. 1 and 2**) and the *Financial Management Arrangement for Mini-Grid Operations* (**Reference Doc. 3**) describes the financial management and reporting procedure which a selected project must adhere to. These documents also contain details on the obligations of three parties, project financing plan, time period that the developer is entitled to operate the mini grid and the expected tariff level and structure for energy sales to the consumers.

Advice and specific technical support will be available for all interested project developers throughout the entirety of the CfP process: during social mobilization and Pre-FS Proposal preparation, during FS Report preparation and during project implementation and operation.

3. Eligible Developers

Prospective mini-grid developers may be a national or international firm⁴ that is a private entity or any combination in the form of a joint venture (JV). In the case of a JV, one entity shall be nominated as a representative authority to conduct all business for and on behalf of all other JV partners during the CfP evaluation process and any subsequent implementation and operations phases.

Companies which have been sanctioned by the Central Tender Committee of the Ministry of Cooperatives and Rural Development in accordance with the company's performance and Myanmar Anti-Corruption Law⁵ shall be ineligible to submit a proposal. Additionally, contractual

⁴ International firms must be duly registered to operate in the Republic of the Union of Myanmar or should have a JV with a duly registered partner company. Civil society organizations are not eligible to serve as the lead developer at this time and should partner with a registered private company in order to participate in the CfP.

⁵ Guidelines on Preventing and Combating Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants.

nonperformance in the past three years with the Government of Myanmar or any of its entities will disqualify a company from participating in the rural electrification programme of DRD.

4. How to Obtain Call for Proposal Documents

Prospective developers may access all documentation relating to the CfP processes via the DRD Website(<https://drdmyanmar.org/>)

NOTE: If there is any difficulty in obtaining the CfP documents, prospective developers are advised to contact the Rural Electrification Division of DRD (HO) directly by email at drdnepmg@gmail.com or by telephone: +95 673418636. or 0673-418656 .

5. Eligible Geographic Locations

There is no preferential or restricted geographic State, Region, District, or Township within the national boundaries of Myanmar, however, in order to receive construction subsidy and/or technical assistance from the DRD, the potential mini-grid site location must satisfy the eligibility criteria set forth in **Support Doc. 3: VEC Application for Mini-Grid Assistance**, provided in Section III of this document.

Prospective developers are encouraged to review a list of mini-grid sites which have been pre-screened by DRD to ensure that they meet the minimum eligibility criteria described in **Support Doc. 3: VEC Application for Mini-Grid Assistance** and **Support Doc. 4: Developer Application for Mini-Grid Assistance**, provided in Section III of this document.

In the context of the Mekong-Lancang Cooperation Project, it is important to note that there are no developer-identified site options available for prospective mini-grid development within Myanmar, except for the following specific area selected for the project;

Lot-1: Kan Seik Solar Mini-grid Electricity Supply and Water Supply Distribution Project, Kan Seik village, Dedaye Township, Ayeyarwady Region.

Lot-2: Kyein Mae Taung Solar Mini-grid Electricity Supply and Cold Storage for Fishery Products Project, Kyein Mae Taung village, Boke Pyin Township, Tanintharyi Region.

If there is interest in a single site by three or fewer developers, all interested developers will be allowed to submit a Pre-FS Proposal for said site and the winner will be selected according to the competitive criteria outlined in **Support Doc. 17: Evaluation of Mini Grid Projects for Subsidy**.

If more than three developers express interest in a single site, DRD will request additional information about the interested companies in order to pre-qualify a maximum of three competitors for said site. The *Pre-Qualification Criteria for Companies Competing for DRD-Screened Sites* (**Support Doc. 18**) is provided in Section III of this document. The three competitive companies will then be allowed to submit a Pre-FS Proposal and the winner will be selected according to the same competitive criteria outlined in **Support Doc. 17: Evaluation of Mini-Grid Projects for Subsidy**.

NOTE: A maximum of three Pre-FS Proposals will be accepted for any given site.

6. Language of the Proposal

The Pre-FS Proposal, FS Report and all documents relating to the CfP shall be submitted to the DRD in English Language, with the exception of **Support Doc. 3: VEC Application for Mini Grid Assistance**, **Support Doc. 5: Memorandum of Understanding between VEC and Developer and Consents of PEU owners with capacity of 2 kW or above**, as per the format given in MOU, provided in Section III of this document, which may be submitted in Myanmar language.

Myanmar language CfP submissions will be accepted, but these should be accompanied by a reliable translation in English again excepting **Support Doc. 3: VEC Application for Mini Grid**

*Assistance and **Support Doc. 5:** Memorandum of Understanding between VEC, Developer and Consents of PEU owners with capacity of 2 kW or above.*

7. Cost of Proposal Preparation

The prospective developer shall bear all costs associated with the preparation and submission of the Pre-FS Proposal. The DRD shall not be liable for costs incurred up to the final approval of the mini-grid project being proposed.

8. Scope of Work of the Developer

The mini-grid project developer plays a key role in the CFP process. The project shall be developed on a BOT model or a developer-owned BOOT model. In both the BOT and BOOT models, the developer must design, implement and operate the project for a pre-determined period up to maximum 15 years which depends on the proposed business model.

The Scope of Work of the developer in the preparation of the Pre-FS Proposal and subsequent FS Report, as defined by the DRD mini grid program, is outlined below.

- I. To identify potential mini-grid project site, as per the guidelines provided in **Support Doc.3: VEC Application for Mini-Grid Assistance**, provided in Section III of this document.
- II. To conduct technical, social and economic studies and to prepare a Pre-FS Proposal and a FS Report, as per the guidelines set forth in **Support Doc. 16: Pre-Feasibility and Feasibility Study Components**, **Support Doc. 1: Mini-Grid Guidelines**, **Support Doc. 2: Mini-Grid Technical Specifications** and supporting documents provided in Section III of this document.
- III. To coordinate with Union, Region/State, District and Township DRD offices, Electrical Services Enterprise (ESE) offices and Electrical Inspection (EI) offices to obtain required data and information needed to develop an appropriate and viable Pre-FS Proposal and FS Report for the selected village(s).
- IV. To liaise with DRD township offices and to educate the respective VECs and potential consumers about the nature of the project being proposed, as well as the DRD mini-grid program in general and the support available
- V. To assist the VECs with completing the necessary documents, including **Support Doc. 3: VEC Application for Mini-Grid Assistance**, which should be included with the Pre-FS Proposal.
- VI. To ensure that the beneficiary community including women, disadvantaged people and vulnerable groups has more equitable access to the benefits of the mini-grid project by

prioritizing electricity access at prices affordable to the all levels of the community while ensuring the long-term financial sustainability of the mini-grid business itself.

- VII.** To permit all interested households, business enterprises and public services in the village(s) to obtain access to grid-quality electricity on 24-hour basis with due consideration of quality and safety while optimizing available renewable energy resources.

9. Statutory Approvals for Mini-Grids

All activities related to development of mini-grid systems are governed by the prevailing laws of the Republic of the Union of Myanmar. To date, no special regulations exist for mini-grid systems below 1 MW capacity and the prevailing statute is the 2014 Electricity Law⁶.

The Rural Electrification Division of DRD (HO) will assist the developers of CfP-resultant mini-grids to secure a license/permit for commercial operation after an Installation Verification process is completed by DRD engineers, as well as ESE township officers and EI personnel from the respective State or Region.

In addition to the technical compliance outlined above, mini-grid projects developed under the DRD must comply with **Reference Doc. 8** *Environmental and Social Management Framework (ESMF) of the World Bank-Assisted National Electrification Project*. For simplicity, **Support Doc. 11: Environmental and Social Safeguard Guide for Mini-Grids** is a compilation of the sections from the ESMF which are most relevant for mini-grid developers and which must be adhered to when participating in the CfP. It outlines the safeguard protocols for design, implementation and operational phases of the mini-grid development process and it contains the requisite screening documents which must be submitted along with a Pre-FS Proposal. Additionally, each proposal must include a land disclosure document, as per the sample document *Disclosure of Land Ownership in Mini-Grid Projects* (**Support Doc. 10**).

10. How to Obtain DRD Township Assistance

At least one site visit with respective DRD township offices is required to witness the MOU signing between the VEC and the prospective developer, however additional support from DRD township offices may also be requested. Developers may contact the relevant DRD township office

⁷ Pyidaungsu Hluttaw Law no. 44/2014

personally or they may submit **Support Doc. 6: Request of DRD Township Assistance for Mobilization of Village**, provided in Section III of this document, to the DRD at least two weeks before the requested date.

11. Timeline of CFP

The timeline of proposal acceptance for the Project to be implemented with the Mekaung- Lancang Special Fund and DRD's Subsidy will be until the deadline for submission. The evaluation and project development timeline will be within two years starting from the project.

Once the final terms and conditions of the proposal have been agreed by the DRD, the beneficiary communities and the developer, the *Mini-Grid Tripartite Agreement (Reference Doc. 1 or 2)* will be entered into following a series of final negotiations.

Training and capacity-building measures related to the mini-grid development process will be conducted on a regular basis by DRD and its affiliated development partner organizations. The exact schedule of these capacity-building measures will be announced in due course.

12. Project Phasing for Risk Mitigation

For sites with high growth potential or for projects that will serve numerous clustered villages, developers are encouraged to submit a system design based on the most conservative demand projections and household connections initially.

Once certain results-based "expansion triggers" have been achieved, the developer will be eligible to submit a new proposal to DRD to expand the project's generation capacity and/or distribution territory in a phase-wise manner. Upon receipt of a phase-wise expansion proposal, DRD will evaluate the performance of the existing mini-grid and determine if it is ready for additional investment. The intention of this option is to help mitigate the need for developers to over-invest at the start of the project based on long-term growth assumptions.

Expansion triggers will differ between generation technologies but may include e.g. fulfillment of the projected load profiles in the FS report, proof of new loads and/or excessive changes in consumption patterns of existing loads, percent renewable energy fraction (for RE-diesel hybrid systems only) and economic least-cost analysis for a specific geographic territory. Expansion

triggers will be defined more concretely at a later date and released publicly to all registered developers and on the website and social media accounts.

13. Contents of the Proposal⁹

A complete Pre-FS Proposal in CfP should include the following five main sections:

- **Part 1:** Pre-Feasibility Study of the Project
This should be prepared as per **Support Doc. 16: Pre-Feasibility and Feasibility Study Components**, **Support Doc. 1: Mini-Grid Guidelines** and **Support Doc. 2: Mini-Grid Technical Specifications**.
- **Part 2:** Completed environmental and social impact screening documents available in **Support Doc. 10: Disclosure of Land Ownership in Mini-Grid Projects** and **Support Doc. 11: Environmental and Social Safeguard Guide for Mini-Grids**.
- **Part 3:** Completed **Support Doc. 3: VEC Application for Mini-Grid Assistance**
- **Part 4:** Completed **Support Doc. 4: Developer Application for Mini-Grid Assistance**
- **Part 5:** Business Registration of the lead developer, duly acknowledged by the Republic of the Union of Myanmar, and Joint Venture Agreement with letter of authority, if applicable.

To ensure fulfillment of the above submission requirements, the Pre-FS Proposal should include a checklist in the format provided by the Rural Electrification Division of DRD (HO).

14. Clarification of CfP

Prospective developers requiring any clarification about the Mini-Grids Call for Proposals shall contact the Rural Electrification Division of DRD (HO) in writing at the address and contact details given below.

Attention: Tender Committee

Department of Rural Development

Ministry of Cooperatives and Rural Development

Office No. 36, Pan Di Ta Road,

Zabu Thiri Township, Nay Pyi Taw, Myanmar.

Telephone: +95 673 418 635, 673418636

Email address:

drdnepmg@gmail.com, pl.hq@drdmyanmar.net, ksaung@gmail.com, myomyonpd@gmail.com

The Rural Electrification Division of DRD (HO) will respond in writing to any request for clarification. Questions received will periodically be aggregated into a Frequently Asked Questions (FAQ) document, which will be subsequently anonymized and distributed to all registered mini-grid companies quarterly.

15. Period of Validity of Proposals

Pre-FS Proposals submitted by prospective developers to the DRD during CFP will be valid for a period of up to six months from the date of receipt, unless otherwise notified in writing by the DRD. Proposals can be withdrawn at any time by submitting a signed statement to this effect to the DRD.

16. Proposal Security

No proposal security or deposit is required during the Pre-FS Proposal or FS Report phases of CFP

In the event that a project is selected to receive a construction subsidy and/or technical assistance under the DRD, a Performance Security bank guarantee will be required. More information on this can be found in the *Mini-Grid Tripartite Agreement (Reference Doc. 1 and 2)*, provided in Section III of this document.

Section II. Submission and Evaluation of Proposals

17. Sealing and Marking of Proposals

The Pre-FS Proposal shall be submitted in hard copy duplicate (one original and one copy) as well as in digital format (PDFs, spreadsheets, software outputs etc.), in English Language, to the DRD.

All submissions of **DRD-screened sites** must be labelled as follows:

For Lot-1: “Mini-Grid CFP – Lot-1”;

For Lot-2: “Mini-Grid CFP – Lot-2”

Support Doc. 1: *Mini-Grid Guidelines*, provided in Section III of this document, provides more details with regards to the preparation of an effective proposal.

18. Deadline for Submission of Proposals

Proposals must be delivered to the address mentioned in the proposal submittal section at 10:00AM local time on 11th Dec 2023.

19. Public Disclosure

The list of mini-grid proposals submitted and accepted for evaluation will be published on the DRD website with the company name, mini-grid technology type, region name, township name, village name in the CfP evaluation process for the public record.

20. Evaluation of Mini-Grid Proposals

The Rural Electrification Division of DRD (HO) will evaluate Pre-FS Proposals and FS Reports in the quickest possible manner from the date of submission⁷. The evaluation of Pre-FS Proposals and FS Reports will yield evaluation reports which highlight specific areas of weakness and requests for further clarification. The developer shall respond to these weaknesses and requests in a timely manner to ensure that the evaluation queue is not backed up. Pre-FS Proposals will be evaluated using the disclosed evaluation criteria in **Support Doc. 17: Evaluation of Mini-Grid Projects for Subsidy**.

⁹The DRD reserves the right to, at any time, prioritize projects of a certain technology type or within a certain geographic territory, thereby overruling the principle of first-come, first-served. Affected developers will be provided with official notice of such prioritization decisions. Such decisions will not take retroactive effect. Furthermore, if more than five submissions are received simultaneously from a single developer, and/or if one proposal among many submitted by a single developer is deemed unsatisfactory, the DRD reserves the right to diversify the queue with submissions from other project developers to ensure an overall efficient processing of the queue.

Section III. References

The following mini-grid supporting and reference documents can be downloaded from the web links provided or by email, upon request

Registration documents

Registration Doc. 1: Mini-Grid Developer Registration Form (Online, English-language only)

<https://tinyurl.com/DevRegistration>

Registration Doc. 2: Mini-Grid Developer Registration Form (Downloadable, Myanmar language and English-language) <https://tinyurl.com/DevRegistrationDownload>

Supporting documents

Support Doc. 1: Mini-Grid Guidelines

<https://tinyurl.com/MGguidelines>

Support Doc. 2: Mini-Grid Technical Specifications <https://tinyurl.com/MGtechspecs>

Support Doc. 3: VEC Application for Mini-Grid Assistance (Form 8 of Operations Manual) <https://tinyurl.com/VECapplication>

Support Doc. 4: Developer Application for Mini-Grid Assistance (Form 9 of Operations Manual) <https://tinyurl.com/DvlprApplication>

Support Doc. 5: Memorandum of Understanding between VEC and Developer

<https://tinyurl.com/MouVECdev>

Support Doc. 6: Request of DRD Township Assistance for Mobilization of Village

<https://tinyurl.com/TwnshpAssist>

Support Doc. 7: Mini-Grid Distribution Line Selection Guideline

<https://tinyurl.com/DistrLineGuide>

Support Doc. 8: Combined Excel file for Daily and Seasonal Energy Demand and Load Profiles, Bill of Quantity, Mini-Grid Financing Plan, Mini-Grid Operations and Maintenance Cost Breakdown, Mini-Grid Income Statement, Mini-Grid Cash Flow Statement, Summary of Financial Result, Levelized Cost of Electricity Generation <https://tinyurl.com/FinanceCalcSheet>

Support Doc. 9: Component Specification Sheet

<https://tinyurl.com/CompSpecSheet>

Support Doc. 10: Disclosure of Land Ownership in Mini-Grid Projects (Sample)

<https://tinyurl.com/LandDisclosure>

Support Doc. 11: Environmental and Social Safeguard Guide for Mini-Grids

<https://tinyurl.com/EnvSocSafeguard>

Support Doc. 12: Willingness-to-Pay and Ability-to-Pay Guidelines

<https://tinyurl.com/WTPandATP>

Support Doc. 13: Demand Survey Forms (Households, Public, Productive Use)

<https://tinyurl.com/DmndSurvey>

Support Doc. 14: Survey Form to Collect General Village Data

<https://tinyurl.com/VillageDataSurvey>

Support Doc. 15: Distribution/Transmission Line Calculation Spreadsheet

<https://tinyurl.com/LineCalcSpreadsheet>

Support Doc. 16: Pre-Feasibility and Feasibility Study Components

<https://tinyurl.com/PreFSandFScomponent>

Support Doc.17: Evaluation of Mini-Grid Projects for Subsidy

<https://tinyurl.com/EvaltnCriteria>

Support Doc. 18: Pre-Qualification Criteria for Companies Competing for DRD-Screened Sites

<https://tinyurl.com/Pre-QualCriteria>

Reference Documents

Reference Doc. 3: Financial Management Arrangement for Mini-Grid Operations

<https://tinyurl.com/MGfinancialMgmt>

- Reference Doc. 4:** Payment Procedure for Mini-Grids <https://tinyurl.com/PaymentProcedure>
- Reference Doc. 5:** Bilateral Service Agreement for the Sale of Electricity
<https://tinyurl.com/BilateralServiceAgrmt>
- Reference Doc. 6:** Pre-Feasibility Study Proposal and Feasibility Study Report Template
<https://tinyurl.com/propTemplate>
- Reference Doc. 7:** Phase Lookup Excel Tool <https://tinyurl.com/NepPhaseLook>
- Reference Doc. 8:** Environmental and Social Management Framework (ESMF) of the World Bank-Assisted National Electrification Project.
<https://tinyurl.com/NepESMF>
- Reference Doc. 9:** Third-Party Reference Materials
<https://tinyurl.com/ReferenceMats>

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|-----|--|--|
| ၁ | မြေသားရေကန်တူးဖော်ခြင်းနှင့် Polyethylene Sheet ခင်းခြင်းလုပ်ငန်း | (၁၁၀'x ၁၁၀'x၇') |
| ၂ | အမြင့်တင်ရေစင်တည်ဆောက်ခြင်းလုပ်ငန်း | (၁၀'x ၁၀'x၄')x၂၀' |
| ၃ | ရေပိုက်လိုင်းသွယ်တန်းခြင်းလုပ်ငန်းနှင့် အများသုံးရေတိုင်(၂၅)ခုဆောင်ရွက်ခြင်း | ၁၀၇၇၈(၃"ဝှေ့၅၀"+ ၂"ဝှေ့၁၀၅၃'+၁"ဝှေ့၇၅') |

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| စဉ် | လုပ်ငန်းအမည် | အတိုင်းအတာ |
|-----|--|--|
| ၁ | Cold Storage Room(Temperature : minus 20°C) | 3.8 M x 3.8 M x 2.7 M |
| ၂ | Base Frame Structure | 3.8 M x 3.8 M |
| | Hollow Tube Base Frame(Socket type welding & riveting) | 100 x 100 x 1.4t |
| ၃ | Single Swing Door | 950 mm W x 2100 mmH : 115 mm thickness |