

Invitation to Tender (ITT)

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

The Burao Municipality, in conjunction with the Government of Somaliland, invites bidders from eligible construction companies for the above-named project being implemented by the Burao Municipality.

It should be noted that bidders are automatically disqualified from participating in this tender if they assisted with any part of this project or tender process, including the preparation of technical documents, or if they are related to a member of the Bid Committee without prior disclosure. Following any disclosure, the Bid Committee will assess whether the conflict is material. Small businesses, minority-owned firms, and women's business enterprises are encouraged to apply.

The mandatory criteria for bidders are as follows. FAILURE TO SUBMIT ANY OF THESE DOCUMENTS WILL LEAD TO AUTOMATIC DISQUALIFICATION:

- Valid National certificate of registration/license from the Ministry of Trade and Tourism, Somaliland (Bar Code matches with Certificate Information).
- Valid National certificate of registration/permit from the Ministry of Energy and Mineral Resources, Somaliland (Bar Code matches with Certificate Information).
- Valid National certificate of registration/license from the Burao Municipality (Bar Code matches with Certificate Information).
- Valid Tax Compliance Certificate from the Ministry of Finance and Economic Development, Somaliland (with a valid and readable QR Code, if applicable).
- Completely Filled out, signed, and Stamped Financial Bid/BOQ. See Attachment L in the Bid Book.
- Filled and Signed Bidder's Declaration Confirming the Absence of Any Conflict of Interest (See Annex I of the RFP).

Other relevant submission requirements related to the evaluation criteria are:

- Technical Proposal outlining understanding of the assignment, implementation methodology, and implementation plan.
- List of previous relevant experience indicating company name, project name, company representative (name, telephone number & email), and evidence (contracts, signed recommendation letters and signed Completion/Successful letters)
- Audited financial reports and bank statements for the last three (3) years.

Submission (Physical & Electronic): Completed bid documents should be submitted in sealed envelopes addressed to: **The Bid Committee, Purchase, Supply & Installation of 195 Solar Street Lights in Burao (PR 055)**

Bids are to be delivered to and received at **the Burao Municipality Office on or before 9 November 2026 at 10:00 am (East African Time)**. Bidders are also required to submit their bids by email (sinaan.tender@dt-global.com) as two separate PDF files - Technical Proposal and Financial Proposal. Both files **MUST** be **password-protected**, with the passwords to be provided in person on the day of bid opening at the Burao Municipality Office in Burao. Bids received after the deadline date and time will not be considered and shall be returned to the bidders unopened.

Offers are to remain valid for 180 days from the closing date of this tender. The Bid Committee reserves the right to vary the quantity of work/materials specified in the tender document without any change in unit price or other terms and conditions, and to accept or reject any, all, or part of submitted offers.

Bidder's Conference: All bidders interested in applying will be required (mandatory) to attend the Bidder's Conference on **Thursday, 22 October 2026, from 9:00 am to 12:30 pm (East African Time) at the Burao Municipality Office.**

Questions Deadline: All questions relating to this solicitation must be submitted electronically via email to the SINAAN Procurement Team at sinaan.procurement@dt-global.com, no later than **Sunday, 25 October 2026, at 5:00 pm (East African Time).**

Question Response: All questions received electronically via email to the SINAAN Procurement Team at sinaan.procurement@dt-global.com will be responded to on **Wednesday, 28 October 2026**, to the bidders who attended the bidder's conference.

Bid Opening: Bids will be opened at the **Burao Municipality office in Burao on 9 November 2026 at 10:30 am (East African Time)** in the presence of the Bid Committee and applicants who wish to attend.

Evaluation Criteria: Offers will be evaluated against criteria including, but not limited to, financial and technical criteria, past performance, and integrity. **Offers will NOT be awarded on the basis of Lowest Priced Technically Acceptable, but rather on a Trade-off/Value-for-Money evaluation process.**

Women-owned construction companies are strongly encouraged to apply.

SINAAN Programme

Request for Proposals

Solicitation No.	RFP # 055
Title:	Purchase, Supply & Installation of 195 Solar Street Lights in Burao (PR 055)
Issue Date:	Tuesday, 29 September 2026
Closing Date:	Monday, 9 November 2026
Closing Time:	1000 Hrs (10 am) East African Time
Questions Due:	Sunday, 25 October 2026
Question Response:	Wednesday, 28 October 2026
Closing Time:	1000 Hrs (10 am) East African Time
Subject:	FCDO Contract No. 6215 SINAAN Programme

DT Global, the implementer of the SINAAN Programme under FCDO Contract No. **6215**, invites proposals for the Purchase, Supply & Installation of 195 Solar Street Lights in Burao (PR 055) as described in Attachment I, "Statement of Work."

The period of performance for this activity is anticipated to commence on 14 December 2026, and end on 14 March 2027 (excluding a 6-month DLP). The issuance of a subcontract is subject to the availability of funds, the successful negotiation of the subcontract terms and budget, and the receipt of FCDO's Contracting Officer subcontract consent, if required. The Contract resulting from this award is envisioned to be a FIRM FIXED PRICE (FFP) CONTRACTUAL AGREEMENT.

DT Global encourages your organisation to indicate its interest in this procurement by submitting a proposal in accordance with the instructions in Attachment II, "Instructions to Bidders". Proposals will be evaluated based on the evaluation criteria established in Attachment III of this solicitation. An award will be made to the Bidder whose proposal represents the best value to the project after evaluation in accordance with the criteria stated in the solicitation.

To be considered under the solicitation process, the Bidder should submit a complete proposal by the means indicated herein no later than the closing date and time indicated above. Bidders should ensure that the proposals are well written, easy to read and follow, and contain only the requested information.

Proposals shall be submitted in sealed envelopes and delivered to the Burao Municipality Office no later than **9 November 2026 at 1000 Hrs (East African Time)**. Bidders shall sign the bid receipt register upon delivery to confirm submission. The envelope shall be clearly addressed to:

The Bid Committee

Purchase, Supply & Installation of 195 Solar Street Lights in Burao (PR 055)

In addition to the physical submission, bidders shall submit an electronic copy of their proposal by email to sinaan.tender@dt-global.com no later than the submission deadline. The electronic submission shall consist of two separate password-protected PDF files:

- Technical Proposal
- Financial Proposal

Bidders shall provide the passwords to the Bid Committee at the bid opening session at the Bosaaso Municipality office. Bidders who are unable to attend may nominate an authorised representative to provide the passwords on their behalf.

Bids received after the submission deadline will not be considered.

Bidders are responsible for ensuring that both the physical and electronic submissions are received by the submission deadline.

The sealed physical submission and the electronic submission **must** be identical in all material respects, and during the bid evaluation, the physical submission shall prevail for evaluation purposes.

Technical and Financial Proposals shall remain separate throughout the evaluation process. Financial Proposals shall only be opened in accordance with the procedures set out in the Bid Book.

If all envelopes are not sealed and marked as required, SINAAN Programme will assume no responsibility for the misplacement or premature opening of the Bids.

The solicitation number above must also be mentioned in the subject of the email.

All questions relating to this solicitation must be submitted **electronically** via email to:

Procurement Team at sinaan.procurement@dt-global.com, no later than **25 October 2026 at 1700 Hrs (5 pm)** East African Time.

Unless otherwise notified by an amendment to this RFP, no questions will be accepted after this date. No questions/clarifications will be entertained if received by means other than the specified email address. The solicitation number should be stated in the subject line.

Proposals must be submitted separately via two different documents. The first document shall include the technical proposal as an attachment and should be named "Technical Proposal – Name of Company", and the second document shall include the cost/business proposal and should be named "Business Proposal – Name of Company."

Attachments:

- Attachment I: Statement of Work
- Attachment II: Instructions to Bidders
- Attachment III: Evaluation Criteria
- Attachment IV: Guidance for Provision of Insurance Quotation with Policy Information
- Annex I: Filled and Signed Bidder's Declaration Confirming the Absence of Any Conflict of Interest
- Annex II: Bid Book

Sincerely,

SINAAN Procurement Team

ATTACHMENT I

STATEMENT OF WORK

Provided in the Bid Book

ATTACHMENT II

INSTRUCTIONS TO BIDDERS

General Instructions

These Instructions to Bidders will not form part of the offer or of the Subcontract. They are intended solely to aid Bidders in preparing their proposals.

- The proposals and all corresponding documents related to the proposal must be written in the English language unless otherwise explicitly allowed.
- No costs incurred by the Bidders in preparing and submitting the proposal are reimbursable by the SINAAN Programme. All such costs will be at the Bidder's expense.
- Proposals and all cost and price figures must be presented in Pounds (GBP). All prices must be inclusive of all applicable taxes, duties, VAT, levies, fees, and other charges, which must be separately identified in the financial proposal.
- The Bidder must state in its Proposal the validity period of its offer. The minimum offer acceptance period for this RFP is **180 days** from the closing date of this tender. Offers with a shorter acceptance period will be rejected. This tender does not obligate DT Global to award a subcontract.
- Responsibility Determination: Award shall only be made to "responsible" prospective Bidders. To enable DT Global to make this determination, the Bidder must briefly describe in the Attachment Section of the proposal that it:
 - has adequate financial resources, including appropriate insurance coverage to perform the work stated herein, or the ability to obtain them;
 - is able to comply with the required or proposed delivery or performance schedule, taking into consideration all existing commercial and governmental business commitments;
 - has a satisfactory performance record;
 - has a satisfactory record of integrity and business ethics;
 - has the necessary technical capacity, equipment and facilities, or the ability to obtain them; and
 - is otherwise qualified and eligible to receive an award under applicable laws and regulations.
- Taxes: The SINAAN Programme is not exempt from the cooperating country taxes and duties. Therefore, Bidders must show taxes separately, but the evaluated bid price will be the total price inclusive of all applicable taxes, duties and fees. Any fees, costs, taxes, duties, or other charges not disclosed in the quotation will not be considered for reimbursement or payment by the SINAAN Programme.
- Eligibility: By submitting an offer in response to this RFP, the Bidder certifies that it and its principal officers are not debarred, suspended, or otherwise considered ineligible for an award by the UK Government. DT Global will not award a contract to any firm that is debarred, suspended, or deemed ineligible by the UK Government.
- Late Offers: Bidders are wholly responsible for ensuring that their offers are received in accordance with the instructions stated herein. SINAAN Programme reserves the right to reject any offer not submitted by the indicated deadline, even if it was late due to circumstances beyond the Bidder's control.
- Modification/Withdrawal of Offers: Bidders have the right to withdraw, modify, or correct their offer after it has been emailed to SINAAN at the email addresses stated above, provided that the request is made before the RFP closing date.

- Disposition of Proposals: Proposals submitted in response to this RFP will not be returned. Reasonable efforts will be made to ensure the confidentiality of both Cost and Technical Proposals received from all Bidders. This RFP does not seek information of a highly proprietary nature, but if such information is included in the Bidder's proposal, the Bidder must alert SINAAN Programme and must annotate the material by marking it "Confidential and Proprietary" so that these sections can be treated appropriately.
- Regardless of the method used to submit the proposal, the Technical Proposal and Cost Proposal must be kept separate. Technical Proposals **must not** reference cost or pricing data so that the technical evaluation may be conducted strictly on the basis of technical merit.
- Clarification and Amendment to the RFP:
 - Any question raised regarding this solicitation should be received no later than 1700 Hrs (5 pm) East Africa Time (EAT) on **Sunday, 25 October 2026**. All questions must be **in writing and** emailed to the email addresses specified in the cover letter. No questions/clarifications will be entertained if they are received by means other than the aforementioned email addresses. The solicitation number should be stated in the subject line. Responses to questions received will be compiled and emailed to potential Bidders.
- If Bidder intends to submit a proposal in response to this solicitation and wishes to receive any updates thereto, Bidder is encouraged to confirm receipt of this solicitation by email to the email address specified in the cover memo.
- The Bidder's email message should state the solicitation number in the subject. Also, the email should include the name of your organisation, the name of the contact person, the email address, and the telephone number.
- SINAAN Programme anticipates that discussions with Bidders will be conducted following vendor Technical and Cost Proposal submission; however, SINAAN Programme reserves the right to make an award without discussions. Therefore, it is strongly recommended that Bidders submit their best offer as their initial Technical and Cost proposal.
- SINAAN Programme may waive informalities and minor irregularities in proposals received.

Submission of Proposal:

- Proposals must be submitted in an electronic format as an email attachment, sent to the email address specified in the cover letter, no later than the date and time specified in the cover letter.
- The email should state the solicitation number in the subject line as well as title.
- The file attachment should be in one of the following formats: PDF, MS Word, MS Excel, MS PowerPoint, or ZIP. The submission of attachments in any other format may result in the disqualification of the offer.
- Please note that the DT Global email server has a 20MB limit on the total attachment size per email. It is strongly recommended that the size of ALL attachments per a single email be less than 20MB.
- The technical and business proposals should be submitted as two separate documents. The first should be named "Technical Proposal – Name of Company" and the second "Business Proposal – Name of Company." If the submission is sent in several emails, the emails should be sequentially numbered to indicate the total number of emails to be submitted (e.g., 1/4, 2/4, 3/4, and 4/4).

Content of Proposal:

The proposal shall consist of five (5) sections. 1) The Cover Page-Technical, 2) The Technical Proposal, 3) The Cover Page-Cost, 4) the Cost/Business Proposal, and 5) The Attachments

1. *The Cover Page-Technical:*

The cover page should be on the Bidder's letterhead and MUST contain the following information:

- Solicitation Number
- Company's Name:
- Company's Address
- Name of the Company's authorised representative
- Telephone No, Cellular Phone #, Email address
- Validity of Proposal
- Signature, Date and time

Below is the template to be filled, signed and submitted together with the proposal:

Proposal Cover Letter

[On Firm's Letterhead]

<Insert date>

TO: DT GLOBAL- SINAAN Programme

We, the undersigned, provide the attached proposal in accordance with **RFP PR 055 Purchase, Supply & Installation of 195 Solar Street Lights in Burao (PR 055)** issued on 29 September 2026. Our attached quoted proposal has fixed prices.

I certify that our proposal is valid for **180** days from the closing date of this tender. Upon award, our proposal price shall be binding upon us, subject to the modifications resulting from any discussions and final negotiations. I certify our financial responsibility, as well as certify that we have the ability to pre-finance.

We understand that the SINAAN Programme is not bound to accept any proposal it receives.

Yours sincerely,

Signature

Name of Authorised Representative

Title of Authorised Representative

Company Seal/Stamp

2. Technical Proposal:

The technical proposal shall describe how the Bidder intends to carry out the statement of work. It will also address the Bidder's corporate capabilities to carry out the work and the extent to which the Bidder has a demonstrated ability to provide the required services.

The Bidder will also include the CVs of all proposed personnel. The Bidder shall provide information about past performance in implementing similar work globally, and, in particular, in Somaliland, within the last 3 years. Capacity to undertake the technical and administrative backstopping of all interventions described in the Scope of Work. The Bidder should also provide a detailed description of existing goods and services in Somaliland.

The technical proposal should be divided into three sections, following the same order as the technical evaluation criteria in Attachment III. Failure to respond to any section will be the basis for disqualification of the Bidder from further consideration.

3. The Cover Page - Cost/Business:

The cover page should be on the Bidder's letterhead and **MUST** contain the following information:

- Solicitation Number
- Company's Name:
- Company's Address
- Name of the Company's authorised representative
- Telephone No, Cellular Phone #, Email address
- Total Proposed Price
- Validity of Proposal
- Acceptance of Tax Withholding Statement
- Name and address of the Government Audit Agency and name and phone number of the auditor
- A valid Business License or National Registration Certificate (with Readable QR Code)
- A valid Tax Compliance Certificate (with Readable QR Code)
- Signature, Date and Time

4. The Cost Proposal/BOQ:

The cost proposal/BOQ shall be submitted separately from the technical proposal. The budget will present the cost for performing the work specified in this solicitation. A template is provided for the pricing in the Bid Book (Annex II). At a minimum, the cost proposal will include the following information:

- A detailed cost breakdown of the proposed budget to the maximum extent practical, including using the template provided.
- A detailed and comprehensive budget narrative explaining the basis for the cost estimates.
- Valid National certificate of registration/license from the Ministry of Trade and Tourism, Somaliland (Bar Code matches with Certificate Information).
- Valid National permit from the Ministry of Energy and Mineral Resources, Somaliland (Bar Code matches with Certificate Information).
- Valid National certificate of registration/license from the Burao Municipality (Bar Code matches with Certificate Information).
- Valid Tax Compliance Certificate from the Ministry of Finance and Economic Development, Somaliland (with a valid and readable QR Code, if applicable).

- Completely Filled out, signed, and Stamped Financial Bid/BOQ. See Attachment M in the Bid Book.
- Filled and Signed Bidder's Declaration Confirming the Absence of Any Conflict of Interest (See Annex I of the RFP).
- If the Bidder does not have a cognisant audit agency, the Bidder must provide audited balance sheets and profit & loss statements for the last two complete years and current year-to-date.
- The most recent three fiscal-year pool and base cost compositions, along with derived rates, the bases for allocating these rates, and an independent certified audit of these rates by a certified accounting firm.

5. **Attachments**

This section will include any information or document that was not listed in the above sections and that the Bidder finds necessary to include in the proposal. In this section, the Bidder will also include the information that will assist the SINAAN PROGRAMME in determining the Bidder's responsibility. The following are **mandatory** documents to be submitted with the proposal:

- a) Valid National certificate of registration/license from the Ministry of Trade and Tourism, Somaliland (Bar Code matches with Certificate Information).
- b) Valid National permit from the Ministry of Energy and Mineral Resources, Somaliland (Bar Code matches with Certificate Information).
- c) Valid National certificate of registration/license from the Burao Municipality (Bar Code matches with Certificate Information).
- d) Valid Tax Compliance Certificate from the Ministry of Finance and Economic Development, Somaliland (with a valid and readable QR Code, if applicable).
- e) Completely Filled out, signed, and Stamped Financial Bid/BOQ. See Attachment M in the Bid Book.
- f) Filled and Signed Bidder's Declaration Confirming the Absence of Any Conflict of Interest (See Annex I of the RFP).

This solicitation in no way obligates DT Global to award a subcontract, nor does it commit DT Global to pay any costs incurred in preparation and submission of a proposal in response to the RFP. Furthermore, DT Global reserves the right to reject any and all offers if doing so is in the best interests of DT Global.

Instructions for the Preparation of the Cost/Business Proposal

The subcontract type will be FIRM FIXED PRICE (FFP) CONTRACTUAL AGREEMENT.

A Firm Fixed Price Subcontract is an award for the provision of specific services, goods, or deliverables and is not adjusted if actual costs are higher or lower than the fixed price amount. Bidders are expected to include all costs, direct and indirect, in their total proposed price.

The Bidder must provide a completed budget using the provided template. If an Excel file, it should NOT be 'read only' or 'protected'. The proposal must include any necessary supporting information to substantiate the proposed costs. The Bidders must submit a detailed budget narrative that supports and clarifies, item for item, the cost estimates proposed in its budget. Narratives for individual cost items must include a discussion of any estimated escalation rates, where applicable. Estimated costs proposed to exceed ceilings imposed by FCDO or FCDO procurement policy must be fully explained and justified.

ATTACHMENT III
EVALUATION CRITERIA

Provided in the Bid Book

ATTACHMENT IV

GUIDANCE FOR INSURANCES REQUIRED TO PROVIDE INSURANCE QUOTATION WITH POLICY INFORMATION

The Bidder is required to engage a well-known, established tier 1 insurance company to provide a quotation with policy information. Bidder is required to provide a quotation from the insurance company with information for review and approval.

To enable the Bidder to engage the insurance company, the table below provides guidance on the recommended insurance to assist in determining the premiums for this activity and enable the Bidder to share a quotation with policy information from the insurance company.

Insurance Type	Y / N / N/A	Limits	Somali Insurance sufficient?	Notes
Employer's Liability / Workers' Compensation – Covering technicians and supervisors	Y	GBP 11,000/ person	Y	Not including medical evacuation & repatriation. Only Somali national staff
Construction all risk insurance covering: The cost of unforeseen loss or damage to Solar Street Lights. Machinery and equipment movement. Public liability. Tools and Plant owned by the policy holder. Plant hired in. Equipment erection	Y	GBP 370,000	Y	For 12 months after project ending. Alternatively consider Contractor All Risk Insurance, if available.
Motor / Vehicle Insurance – For project vehicles and transport to/from site	N	N/A	N/A	No transport provided
Marine / Transit Insurance – For equipment moved into Somalia	Y	N/A	N/A	All material will be procured locally
Professional Indemnity – Including long-tail risk and run-off cover	Y	GBP 370,000	Y	Including 12 months run-off
Environmental / Pollution Liability – Groundwater, contamination, drilling fluids	Y	GBP 74,000	Y	For damages waste management, soil disturbance, dust/noise

ANNEX I

BIDDER'S DECLARATION CONFIRMING THE ABSENCE OF ANY CONFLICT OF INTEREST

Subject: BIDDER'S DECLARATION CONFIRMING THE ABSENCE OF ANY CONFLICT OF INTEREST

Ref: PR 055 – Purchase, Supply & Installation of 195 Solar Street Lights in Burao (PR 055)

I/We, as authorised representative of _____ (Insert Company Name Here, and Fill in and sign table below) certify that:

- I/We do not have any material, personal or financial relationship with **SINAAN Programme/ Burao MUNICIPALITY**, or to its employees;
- I/We will uphold the integrity and impartiality of this procurement process in spirit and in fact;
- I/We will not engage in any corrupt practice during the procurement process i.e. solicit or accept, either directly or indirectly any gift, favour, loan, kickback, payment, commission or any other thing of monetary value from a potential or actual bidder;
- I/We will not engage in fraudulent practice (misrepresentation or omission of facts in order to influence a procurement process);
- I/We will immediately notify the **SINAAN Programme** of any attempt to influence me.

Signed:

NAME	ORGANISATION	TITLE	SIGNATURE

**ANNEX II:
BID BOOK**

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

BID BOOK

Summary of Bid Documentation

Attachment #	Instructions to Bidders	Attached or Filled, Stamped & Signed Checklist
A	Form of Bid	☐
B	Certification to Additional Agreements as Part of the Bid	☐
C	Company Registration	☐
D	Certificates of Compliance to FCDO Regulations	☐
E	Summary of Past Performance, Experience & Technical Capability	☐
F	Key Site Staff (CV and Certificates Must be attached)	☐
G	List of Equipment	☐
H	Value of the works currently under contract (On-going Works)	☐
I	List of Local Labourers	☐
J	Methodology and Work Schedule	☐
K	Bank Details for Payments	☐
L	Cost Proposal - Bills of Quantities (to be filled, signed and stamped)	☐

Location	Burao, Somaliland	PR NO	055
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Instructions to Bidders

Scope of Bid SINAAN PROGRAMME invites qualified construction bidders to submit a best-price proposal for this work funded by the UK Government as described in this bid document. Bidders are responsible for ensuring that their proposals are received by SINAAN PROGRAMME in accordance with the instructions, terms, and conditions described in this RFP. Failure to adhere to the instructions set out in this RFP may lead to disqualification of the proposal and/or Bidder from further consideration.

Source of Funds Eligible Bidders The Works are carried out under the SINAAN PROGRAMME.

The main criteria for admission to the tender are as follows:

- a) All National registration certificates/ license/ permit (with Bar Code that matches the certificate information) from the Ministry of Trade and Tourism, Somaliland; the Ministry of Energy and Mineral Resources, Somaliland; the Burao Municipality; as well as a valid tax compliance certificate from the Ministry of Finance and Economic Development, Somaliland - a copy to be attached to the bid documents and able to perform under the conditions required for the work covered by this RFP.
- b) Bidders that comply with the applicable UK Government/ FCDO certifications.
- c) Signed technical submission form and financial proposal.
- d) Completed, filled and signed BOQ.
- e) Provide a company profile with a list of names of directors.
- f) CVs of company's Key staff personnel (written into the bid book is acceptable).
- g) Must have a minimum of 5 years of experience as a construction company in Somaliland.
- h) Adequate Equipment list.
- i) Good track-record and references from previous clients.
- j) A company bank account.

Ineligible to participate in the bidding process are:

1. Bidders (including all subcontractors which will be engaged) must not currently be associated with or have been associated with (or the affiliates of a business or company) the consultants or company which developed the specifications, plans, measurements, and other documents used in previous RFPs or as part of this RFP.
2. Bidders who are bankrupt or insolvent as determined by a judicial decision other than bankruptcy, resulting, in accordance with the applicable legislation, in total or partial seizure by the Administration and disposition of its property;
3. Bidders who are seriously guilty of false statements regarding information required for its participation in a ITT, Request for Quotations or an RFP;
4. Bidders who have not substantiated being in compliance with the Tax and Labour Administration;
5. Bidders who are related to a person employed by DT Global or the SINAAN PROGRAMME, or who is related to a person having a relationship with a person employed by DT Global or the SINAAN PROGRAMME.
6. Bidders who have connections with terrorist organisations or who finance acts of terrorism.

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One Bid per Bidder

A firm shall submit only one bid in the same bidding process, either individually as a bidder or as a partner in a joint venture (with joint venture documentation). No firm can be a subcontractor while submitting a bid individually or as a partner of a joint venture in the same bidding process. A bidder who submits or participates in more than one bid will cause all the proposals in which the bidder has participated to be disqualified.

Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of its Bid. SINAAN PROGRAMME and the Bid Committee will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. No fees may be charged for the collection of a bid book.

Bidder's Conference

The costs of attending the bidder's conference shall be at the bidder's own expense. Bidder is expected to be at the conference on **Thursday, 22 October 2026 from 9:00 am – 12:30 PM (East African Time)** at the **Burao Municipality Office**.

Language of Bid

The language of the bid shall be in English ONLY.

Annexes Incorporated by Reference

The bidder is responsible for becoming familiar with Annex 1 (Quality Assurance Plan to be followed during construction)

Packaging and Delivery of Bids

Bid documents are to be delivered to and received at the **Burao Municipality Office** on or before **9 November 2026 at 10:00 am**. Bids received after this time will not be considered and shall be returned to the bidders unopened

RFP# - 055

Purchase, Supply & Installation of 195 Solar Street Lights in Burao

DUE: 9 November 2026, 10:00 Hrs (East African Time)

Location	Burao, Somaliland	PR NO	055
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Documents included in the Bid

The Bidder shall fill all the information requested in the Bidding Documents. The documents to be included in the bid are:

The Following describes the contents of the Technical Proposal:

Attachment A - Form of Bid
Attachment B - Certification to Additional Agreements as Part of the Bid
Attachment C - Company Registration
Attachment D - Certificates of Compliance to FCDO Regulations
Attachment E - Summary of Past Performance, Experience & Technical Capability
Attachment F - Key Site Staff (CV and Certificates Must be attached)
Attachment G - List of Equipment
Attachment H - Value of the works currently under contract (On-going Works)
Attachment I - List of Local Labourers
Attachment J - Methodology and Work Schedule (To be submitted)

The Following describes the contents of the Cost Proposal:

Attachment L - Bank Details for Payments (Vendor Payment Information Form (to be Filled, stamped and signed)
Attachment M – Cost Proposal – Certificate of BOQ Quantities and Bills of Quantities (to be Filled, stamped and signed)

Bid Prices

Bidders are responsible for checking the accuracy of the BOQ. If significant deficiencies are identified, the bidder should reflect those discrepancies in the BOQ **as a separate line item and should bring to the attention of the evaluating committee with a foot note**. The Contract shall be for the whole Works computed based on the unit rates and prices in the Bill of Quantities submitted by the bidder. The bidder shall fill in prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the bidder will not be paid for when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.

Currency of the Bid and Payments Filling and Signing of the Bid

The currency of the Bid and payment for works executed shall be in Pounds (GBP).

The bidder shall fill all the information requested in the bid documents. If additional pages are required, the same can be inserted and paged accordingly. All the information shall be typed or written in indelible ink and shall be signed by a person or persons duly authorised to sign on behalf of the bidder.

All pages of the bid where entries or amendments have been made shall be initialled by the person or persons signing the bid.

Bid Validity

The Bid shall remain valid for a period of 180 days from the closing date of this tender. Bidders may not alter their bids after submission.

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Evaluation of Bids

The Bid Committee will have the responsibility to review, evaluate and qualify each of the criteria of all the offers received. As a result of the evaluation, the Bid Committee will jointly recommend the Bidder to be awarded the contract/contracts.

Please note that if there are significant deficiencies regarding responsiveness to the requirements of this RFP, a proposal may be deemed “non-responsive” and thereby disqualified from consideration.

TECHNICAL EVALUATION: The offers will first be evaluated on technical merits. The technical evaluation assesses the capacity of the company on the basis of submitted technical documents. Points will be allocated to a maximum indicated in the table below. If a company gains less than 70 points (out of 100), it will not be taken into consideration for financial evaluation.

S-1 Methodology and Work Schedule (15 points)

The Bidder should prepare a work schedule which shall describe a detailed breakdown of activities that will allow supervision to monitor weekly progress as well as should propose a payment schedule based on progress for each BOQ line item. The schedule should include breakdown by procurement, mobilisation to project site (including materials delivery and project office and housing for workers), all construction activities (excavation, demolition, floors, walls, ring beam, ceiling, finishing, water supply and distribution system, electrical supply and distribution system, and landscaping) and the duration for each activity with a planned start and end date.

S-2 Past Performance and Reference List (40 Points: 20 points [4 points for each valid project]; 15 points for turnover and current liquidity; and 5 points for Local Credibility)

- Projects identified should be at least five (5) current or previous contracts/projects of a similar type, with at least three (3) of these being in the last three (3) years of a similar size and value to the project activity.
- Projects identified should be of a similar type in nature such as construction of a park, government and commercial buildings, schools, community buildings, international or non-governmental organisation offices or compounds, health units or clinics, etc.
- Bidders must provide the location and contact details, phone number and email addresses, for any project listed. SINAAN PROGRAMME reserves the right to visit any site for inspection to evaluate a Bidder's technical capability.
- The Bidder is required to distinguish, between works performed as the prime Subcontractor or subcontractor; monetary values should be based on the portion of the project performed, i.e., works performed as a subcontractor should only include the monetary amount of the subcontract and not the prime contract.
- Projects identified should be of a monetary value equal to or greater than the magnitude for this RFP; less weight will be given for projects identified that are lower than the estimated value of this RFP.
- Recently completed (past 3 years) or current works will be given greater consideration than older projects and completed projects greater consideration than current projects. References for projects completed must be submitted on client letterhead to be considered valid.
- Turnover & Current Liquidity – Provide signed and stamped audited financial reports and bank statements for the last 3 years that have an annual average turnover of £350,000.

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S-3 List of Key Personnel (20 points to be divided among requested key personnel)

The Bidder should describe the proposed technical and managerial team and attach copies of the CVs for the following key personnel:

- **Company Director**
- **Project Manager:** Should possess at least a bachelor's degree in civil engineering/ project management or its equivalent and preferably registered with the relevant registration bodies. Minimum of 8 years' experience including experience as a Site Agent / Subcontractor representative in construction projects of Supply and Installation of Solar Street Lights/PV Systems or similar.
- **Site Engineer:** at least bachelor's degree in civil engineering with minimum 7 years of experience. The site engineer will remain at the site throughout the project duration.
- **Construction Foreman (on-site supervisor):** Should possess at least a Diploma in construction or civil engineering with experience in handling earth works, electrical, plumbing and sewerage network, pavements and concrete works. Proven experience as construction foreman of not less than 5 years. Ability to read drawings, plans and blueprints. Problem-solving abilities.
- **Health and Safety Officer** – Bachelor's degree in environmental science and additional qualification in Occupational Health and Safety from a reputable institution, or bachelor's degree in occupational safety and health from a reputable institution. At least 3 years' experience in supervising infrastructure of similar scope.
- **Electrical Supervisor:** Diploma or equivalent in electrical engineering with 5 years of experience in electrical wiring and solar installations.
- **Admin and Logistician:** Certificates or equivalent in business administration or procurement/logistics with 3 years' experience in administration or procurement/logistics.
- Any other key personnel proposed by the Bidder.

Note: If one individual fills more than one of these roles, please state this in the proposal. Identifying an individual in the staffing plan and not utilising them in that capacity during the performance of the works may be grounds for Termination for Default of any contract resulting from this RFP.

S-4 List of Equipment (20 points)

It is anticipated that significant equipment, tools and materials are required for proper completion of the Purchase, Supply & Installation of 195 Solar Street Lights in Burao. The Bidder will confirm the availability of equipment as listed in Attachment G. The bidder will mention the make and model (brand), year of manufacture, indicate if it is in proper functioning condition, as well as ownership (or rental) of each required piece of equipment. SINAAN Team reserves the right to inspect the equipment and its documentation during due diligence.

The Bidder should also include information where all materials will be sourced and delivered to the project site, including specific borrow location for sand and aggregate materials, or clearly indicate that you do not have this information. Equipment used by the Bidder not listed in Annex 4 must be clearly marked and a detailed description/justification for their use should be provided. Failure to complete all blanks on this document may reflect negatively on a Bidder's proposal during the technical evaluation.

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S-5 Number of Labourers (5 points)

The Bidder shall provide a realistic number of labourers proposed for each activity during project implementation. The recruitment and employment of local unskilled labour is highly encouraged. The number of women labourers shall not be less than 5% of the total workforce. Points will be awarded based on the adequacy and realism of the labour allocation for each activity, the percentage of women labourers, and the roles assigned to women on the project.

Schedule	Category	
	Technical	Max Points
S1	Methodology and Work Schedule	15
	Bidder demonstrates an understanding of the activities to be undertaken, the order in which they should occur and timeline by which they should be completed, through the submission of a Methodology and Work Schedule (Methodology 5 points; Work Schedule 10 points)	
S2	Past Performance and Reference List	40
	Bidder will be evaluated on quality of completed projects which are similar in size, complexity, and value. Bidder should list at least five (5) current or previous contracts/projects references undertaken in the region (Somaliland), particularly at least 3 projects identified of a similar size, complexity and value in the last 3 years. Bidder is required to indicate company name, project name, company representative (name, telephone number & email), and evidence, that is contracts, signed recommendation letters and signed Completion/Successful letters. (4 points for those of similar size, complexity and value per project)	20
	Turnover & Current Liquidity – Bidder demonstrates an annual average turnover of £350,000 with the provision of signed and stamped audited financial report and bank statements for the last 3 years (15 Points)	15
	Local Credibility (5 points)	5
S3	List of Key Personnel	20
	Bidder's proposed technical and managerial staff has skills, education and experience necessary to complete the project. Points are awarded on the basis of the presentation of CVs signed and dated by key personnel, copies of diplomas, letters of commitment, and description of personnel allocation.	20
S4	List of Equipment	20
	Evaluation of the type, capacity, quantities, proof of availability, age and location of relevant equipment that the Bidder can use for the work.	
S5	Number of Labourers	5
	Number of local semi-skilled and skilled labours proposed for the project - list skills and level of effort needed	
	TOTAL MARKS	100

Once the Bid Committee has finished evaluating the technical proposal, it will proceed to evaluate the cost proposal (financial evaluation for those offers that present the best qualifications and reached a minimum score of **70 points**). Proposals that do not reach the minimum score will be disqualified and will not be considered for further evaluation.

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Financial Evaluation

The Financial Evaluation will assess the reasonableness, realism, completeness, and value for money of each Cost Proposal against the Engineer's/Programme's Independent Cost Estimate (ICE).

The Independent Cost Estimate will be used as a benchmark to:

- Assess whether proposed prices are realistic and feasible for successful delivery of the works;
- Identify abnormally low or abnormally high bids that may present implementation risks;
- Evaluate the reasonableness of individual BOQ line items;
- Support clarification and negotiation of costs where necessary; and
- Determine overall value for money in conjunction with the Technical Evaluation.

Bids will not be awarded solely on the basis of the lowest price. The Bid Committee will consider both technical quality and cost to determine the proposal that offers the best overall value for money.

Where a bid is significantly above or below the Independent Cost Estimate, the Evaluation Committee may request clarification and supporting justification from the bidder. If the explanation provided does not demonstrate that the proposed price is realistic and achievable, the bid may be considered non-responsive and excluded from further consideration.

The passing technical bids shall be checked for any arithmetic errors and corrections made as follows:

- a) Where there is a discrepancy between the amounts in figures and words, the amount in words will govern;
- b) Where there is a discrepancy between the unit rate and the line item total derived from multiplying the unit rate by the quantity, the unit rate as quoted will govern unless in the opinion of the Bid Committee, there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted will govern and the unit rate will be corrected;

If a bidder does not accept the correction of arithmetic errors, the bid shall be rejected and shall not be considered for award

Award

The Bid Committee will recommend a bidder whose bid has been determined to:

- Be substantially responsive to the bidding documents.
- Received at least 70 points and above in the technical evaluation
- Presents the **best value/value for money** to the programme

SINAAN PROGRAMME shall then notify the successful bidder in writing that their Bid has been accepted before the expiry of the period of Bid validity. The Letter of Acceptance sent to the Bidder shall state the sum payable to the Bidder for execution, completion and maintenance of Works as per the Bid.

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The Bid Committee will also propose as second and third alternatives the offers that occupy the second and third place in descending order.

SINAAN PROGRAMME shall then send the Subcontract Agreement to be signed by the selected Bidder. The Bidder should return the signed Contract Agreement within seven days of receiving the contract.

The Bidder attests to their ability to mobilise on site with all specified equipment within ten days of award and subsequent contract signing.

SINAAN PROGRAMME reserves the right to conduct any of the following:

- Conduct cost negotiations with Bidders and request best and final offers, and/or request clarifications from any Bidder prior to award.
- While preference will be given to Bidders who can address the full technical requirements of this RFP, SINAAN PROGRAMME may issue a partial award or split the award among various Bidders, if in the best interest of the programme.
- Cancel this RFP at any time.
- Reject any and all offers, if such action is considered to be in the best interest of SINAAN PROGRAMME or FCDO.

Bidders are reminded that DT Global is not obligated to award a negotiated subcontract based on lowest proposed cost or to the Bidder with the highest technical evaluation score. DT Global will make an award to the Bidder whose proposal offers the best value to the SINAAN Programme considering both technical and cost factors. When competing technical proposals are considered essentially equal, cost will become the determining factor.

Unsuccessful Bidders will be notified by email and provided with a seven (7) working days standstill period following notification. During this period, Bidders may submit any procurement complaints or challenges relating to the procurement process in writing to the SINAAN Tender email address (sinaan.tender@dt-global.com). Any complaints received within the standstill period will be reviewed in accordance with the SINAAN Programme's procurement procedures prior to contract award.

Modifications to the Contract

This is a fixed price Subcontract Agreement that can only be modified for the following reasons:

- When additional scope has been identified that was not contemplated in the original SOW and BOQ as necessary, modifications cannot exceed 15% of the contract value. Line items cost will be used as a base to calculate value of modification. It can only be modified by written instrument signed by both parties. The parties' right to modify or amend this Subcontract may be subject to approval by FCDO.
- DT Global may make adjustments for substitution of works that do not affect the total value of the contract. Only those changes in the works that are approved on a written change order by the Team Leader, shall be binding on the Subcontractor within the general scope of the Contract.

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**Performance
outside Scope
of Subcontract**

The Subcontractor shall receive technical direction from the SINAAN PROGRAMME Team Lead (TL), SINAAN PROGRAMME Deputy Team Lead (DTL), or the SINAAN PROGRAMME Chief Engineer as authorised in writing. In no event shall any direction from SINAAN PROGRAMME (other than a formal, written modification issued by either SINAAN Programme or FCDO based on the threshold of the contract) increase the Not-to-Exceed cost of this Agreement. Evaluation shall not be compensated or reimbursed by SINAAN PROGRAMME for services performed or materials provided beyond those required to carry out the works.

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Documents to be included in the Bid Package

Attachment A - Form of Bid

To, The Bid Committee:

1. Having visited the above project site and examined the required bidding documents for the above-mentioned works, we offer to execute, complete and remedy any defects to the works therein for the sum of GBP £ _____ (Insert amount in figures)

_____ .
(insert amount in words)

2. We undertake, if our bid is accepted, to mobilise on site with all respective equipment required to facilitate works and to begin said work within _____ calendar days of signing the official contract. We hereby further agree to complete and deliver the works in accordance with the contract within _____ calendar months calculated from the date of starting the works. Failure to maintain the approved timeline for delivery and schedule of works may result in the assessment of liquidated damages and possibly termination of the contract for cause. We understand and agree that DT Global and its SINAAN PROGRAMME representatives are not responsible for facilitating transport of equipment into areas of designated works.
3. We understand and accept that the Committee is not bound to choose the lowest price or any bid that may be received, and that any or all bids may be rejected without assigning any reason for such rejection.
4. The bid validity period is 180 days from the closing date of this tender, and we agree to abide by this from the date fixed for receipt of the same.
5. Unless and until a formal Agreement is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Dated (day) _____ Day of (month) _____ (Year) 20 _____

Signature _____ in the capacity of (Title) _____

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Attachment B - Certification to Additional Agreements as Part of the Bid

Type of Contract to be Awarded	Fixed Price
Defects Liability Period	6 Months
Defects Liability	10 % to be presented at the end of the contract. DT Global will hold the retention payment till the successful completion of Defect and Liability period and fully signed Final Completion Certificate.
Percentage of Retention	10% from each deliverable payment (To be released upon presentation of fully signed Final Completion Certificate)
Time Allotted for Payment(s) once Payment Certificate is Approved	Forty-Five (45) Days from Receipt of Official Invoice
Local labour to be hired under the contract	50%
Percentage of Women to be Hired Under the Contract	Minimum of 5%
Late delivery; Liquidated Damages	For the first fifteen (15) calendar days of delay, liquidated damages shall be applied at a rate of 0.05% per calendar day of the outstanding contract value. For delays extending from day 16 to day 30, the daily liquidated damages rate shall increase to 0.10%. For delays extending from day 31 to day 45, the daily liquidated damages rate shall increase to 0.15%, each calculated against the outstanding contract value at the time the penalty is imposed. If the cumulative liquidated damages reach fifteen percent (15%) of the total contract value, DT Global reserves the right to terminate the contract for default.
Project Cancellation	Contract will be terminated for cause if Subcontractor defaults on agreement and will occur once all liquidated damages have been assessed and collected/deducted accordingly.
Contract Duration	_____ Months

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Terms and Conditions of Award

The subcontract award will include, but not be limited to, the following provisions:

TYPE OF SUBCONTRACT

This is a Fixed Price subcontract. This fixed price includes, but is not necessarily limited to, all of the Subcontractor's labour, supervision, insurance, transport, fuel, oil, materials, tools, equipment, loading and offloading, handling, maintenance, testing, taxes, quality control, security, waste removal and other obligations to which the Subcontractor may be entitled, as well as all indirect costs such as overhead and profit. Payments to the Subcontractor cannot exceed the total contract award.

The subcontractor agrees that they shall bear the financial responsibility for any fines, fees, penalties, or corrective costs that result as a consequence of the subcontractor's failure to meet the local environmental city regulations concerning demolition and disposal in a manner consistent with the terms of this subcontract.

Any fines, fees, penalties, or corrective costs that are not paid by the Subcontractor directly, shall be deducted from the final contract value.

LIQUIDATED DAMAGES

Subcontractor shall adhere to the delivery schedule set forth in the contract. When the Subcontractor is delinquent in fulfilling its contractual obligations, DT Global may terminate the contract or impose a fine for each calendar day of delay, in accordance with the following:

For the first fifteen (15) calendar days of delay, liquidated damages shall be applied at a rate of 0.05% per calendar day of the outstanding contract value. For delays extending from day 16 to day 30, the daily liquidated damages rate shall increase to 0.10%. For delays extending from day 31 to day 45, the daily liquidated damages rate shall increase to 0.15%, each calculated against the outstanding contract value at the time the penalty is imposed.

When the cumulative liquidated damages reach fifteen percent (15%) of the total contract value, DT Global reserves the right to terminate the contract for default.. The percentage of the fine previously established, shall apply to the total Contract value on the date the fine is imposed. The above penalties shall be determined and imposed following a meeting with the Subcontractor. The Subcontractor will be notified in writing of the meeting. Failure to attend the meeting will result in a forfeiture of any rights to discuss, contest, or negotiate the imposition of fines. DT Global's supervisory firm in the field will report indicating lack of satisfactory completion beyond the agreed and signed Delivery Schedule,

Unless the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Subcontractor the fine will not be applicable. Examples of such causes include Acts of God or the public enemy, acts of the government in either its sovereign or contractual capacity, fires, epidemics, quarantine restrictions, security strikes, unusually severe weather or delays of Subcontractor at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both DT Global and the Subcontractors.

Signature of Bidder: _____ Date _____

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Attachment C - Company Registration

National registration certificates/ license/ permit (with Bar Code that matches the certificate information) from the Ministry of Trade and Tourism, Somaliland; the Ministry of Energy and Mineral Resources, Somaliland; the Burao Municipality; as well as a valid tax compliance certificate from the Ministry of Finance and Economic Development, Somaliland - a copy to be attached to the bid documents

Name of Business or Firm: _____

Place of registration: _____

Exact Address: _____

Telephone: _____

Mobile: _____

Email: _____

Validity Date: _____

Principal Place of Business: _____

Name of Director: _____

Provide original or certified copy of all mandatory administrative documents: All Certificates of National registration/ license (with Bar Code that matches the certificate information) from the Ministry of Trade and Tourism, Somaliland; the Ministry of Energy and Mineral Resources, Somaliland; the Burao Municipality; as well as a valid tax compliance certificate from the Ministry of Finance and Economic Development, Somaliland.

I do hereby certify that the **information** contained herein is **accurate**. I authorise DT Global to verify, as the need arises, the accuracy of this information, either through on-site visits to my place of business, or by enquiries through relevant and competent services.

Signed on (Date)_____

Name: _____

Signature of authorised agent

Title: _____

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Attachment D- Certificate of Compliance to FCDO Regulations

Certification Regarding Knowledge of FCDO Compliance

To: Team Leader, SINAAN PROGRAMME

I, _____ (FIRST NAME, LAST NAME),

as _____ (TITLE), a legally Authorised representative of

_____ (ORGANISATION NAME)

do hereby certify that, by signing below, we provide certification and assurance for the following:

- (1) Organisational Conflicts of Interest Representation
- (2) Disclosure of DT Global/FCDO-approved supplier declarations: sanctions, terrorism financing, fraud/bribery, modern slavery, safeguarding/SEA, conflicts of interest and eligibility.
- (3) Key Individual Certification Narcotics Offences and Drug Trafficking
- (4) The Sexual Abuse and Exploitation in Transition Assistance Operations

These certifications and assurances are given in consideration of and for the purpose of obtaining any and all UK Government/ FCDO grants, loans, contracts, property, discounts, or other UK Government/ FCDO financial assistance extended after the date hereof to the Bidder by DT Global, including instalment payments after such date on account of applications for UK Government/ FCDO financial assistance which was approved before such date. The Bidder recognises and agrees that such UK Government/ FCDO financial assistance will be extended in reliance on the representations and Subcontracts made in these assurances, and that the UK Government/ FCDO will have the right to seek judicial enforcement of these assurances. These assurances are binding on the Bidder, its successors, transferees, and assignees, and the person or persons whose signatures appear below are authorised to sign these assurances on behalf of the Bidder.

I, we, understand that a false, or intentionally misleading, certification could be the cause for possible actions ranging from being found not responsible for this award to suspension or debarment of this organisation in accordance with the provisions of FCDO Regulations.

I declare under penalty of perjury that the foregoing is true and correct.

Signature: _____

Date: _____

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ORGANISATIONAL CONFLICTS OF INTEREST REPRESENTATION

1. (a) The Bidder represents that, to the best of its knowledge and belief, the award of this Subcontract or the modification of an existing contract does ☐ or does not ☐ (tick where appropriate) involve an organisational conflict of interest.

(b) The term “organisational conflict of interest” means that a relationship exists whereby a Bidder (including its chief executives, directors, proposed Bidder or Bidders) has an interest which (A) may diminish its capacity to give impartial, technically sound, objective assistance and advice or may otherwise result in a biased work product, or (B) may result in an unfair competitive advantage. It does not include the normal flow of benefits from the performance of a contract.

2. If the Bidder indicates that there are organisational conflicts of interest in the “Organisational Conflicts of Interest Representation”, the Bidder shall provide a statement which describes in a concise manner all relevant facts concerning any present or current planned interest (financial, contractual, organisational, or otherwise) relating to the work to be performed in the proposed contract and bearing on whether the Bidder has a possible organisational conflict of interest with respect to being able to render impartial, technically sound, and objective assistance or advice, or being given an unfair competitive advantage. The Bidder may also provide relevant facts that show how its organisational structure and/or management systems limit its knowledge of possible organisational conflicts of interest relating to other divisions or sections of the organisation and how that structure or system would eliminate or neutralise such organisational conflicts.

Name: _____

Title: _____

Signature: _____

Date: _____

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ATTACHMENT E - SUMMARY OF PAST PERFORMANCE, EXPERIENCE & TECHNICAL CAPABILITY

(Information to be provided by Bidder as part of the technical proposal)

Name of Business or Firm:

Previous works undertaken as prime Subcontractor, for works of similar type and size, from 2023 to 2026. Express monetary values in GBP £

Project name	Client name	Types of works and year of completion	Value of works (In USD)	Equivalent Value of works (In GBP)	Certificate of completion Or copy of the contract attached (Yes/No)
1.					
2.					
3.					
4.					
5.					

[Include either a signed and stamped copy of each certificate of completion and a signed and stamped copy of the contract for each project listed, please take note that, if not included, no points/scores will be awarded]

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For each project listed above, please complete a table such as that presented below and attach separately evidence of the signed agreement:

Project #1	
Project Name/Title	
Description Of Work	
Cost in GBP £	
Site Location (Region/District)	
Client	
Reference Name:	
Email:	
Telephone:	
Type of Contract (e.g. fixed price, time-and-materials, cost plus fixed fee, etc.)	
Were You a Prime Subcontractor or a Sub Subcontractor?	
Quality Assured Contract (Yes/No)	
Contract Awarded Value and Final Cost	
Start Date – End Date	
Contract Commencing Date	
Contract Period (No. Of Months)	
Actual Date of Practical Completion	
Applicant Performance Report Available?	
Delays – External Factors (Working Days)	
Delays – Internal Factors (Working Days)	
Final Completion/ Certificate of completion attached (yes/no)	

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Project #2

Project Name/Title	
Description Of Work	
Cost in GBP £	
Site Location (Region/District)	
Client	
Reference Name:	
Email:	
Telephone:	
Type of Contract (e.g. fixed price, time-and-materials, cost plus fixed fee, etc.)	
Were You a Prime Subcontractor or a Sub Subcontractor?	
Quality Assured Contract (Yes/No)	
Contract Awarded Value and Final Cost	
Start Date – End Date	
Contract Commencing Date	
Contract Period (No. Of Months)	
Actual Date of Practical Completion	
Applicant Performance Report Available?	
Delays – External Factors (Working Days)	
Delays – Internal Factors (Working Days)	
Final Completion/ Certificate of completion attached (yes/no)	

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Project #3

Project Name/Title	
Description Of Work	
Cost in GBP £	
Site Location (Region/District)	
Client	
Reference Name:	
Email:	
Telephone:	
Type of Contract (e.g. fixed price, time-and-materials, cost plus fixed fee, etc.)	
Were You a Prime Subcontractor or a Sub Subcontractor?	
Quality Assured Contract (Yes/No)	
Contract Awarded Value and Final Cost	
Start Date – End Date	
Contract Commencing Date	
Contract Period (No. Of Months)	
Actual Date of Practical Completion	
Applicant Performance Report Available?	
Delays – External Factors (Working Days)	
Delays – Internal Factors (Working Days)	
Final Completion/ Certificate of completion attached (yes/no)	

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Project #4

Project Name/Title	
Description Of Work	
Cost in GBP £	
Site Location (Region/District)	
Client	
Reference Name:	
Email:	
Telephone:	
Type of Contract (e.g. fixed price, time-and-materials, cost plus fixed fee, etc.)	
Were You a Prime Subcontractor or a Sub Subcontractor?	
Quality Assured Contract (Yes/No)	
Contract Awarded Value and Final Cost	
Start Date – End Date	
Contract Commencing Date	
Contract Period (No. Of Months)	
Actual Date of Practical Completion	
Applicant Performance Report Available?	
Delays – External Factors (Working Days)	
Delays – Internal Factors (Working Days)	
Final Completion/ Certificate of completion attached (yes/no)	

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Project #5

Project Name/Title	
Description Of Work	
Cost in GBP £	
Site Location (Region/District)	
Client	
Reference Name:	
Email:	
Telephone:	
Type of Contract (e.g. fixed price, time-and-materials, cost plus fixed fee, etc.)	
Were You a Prime Subcontractor or a Sub Subcontractor?	
Quality Assured Contract (Yes/No)	
Contract Awarded Value and Final Cost	
Start Date – End Date	
Contract Commencing Date	
Contract Period (No. Of Months)	
Actual Date of Practical Completion	
Applicant Performance Report Available?	
Delays – External Factors (Working Days)	
Delays – Internal Factors (Working Days)	
Final Completion/ Certificate of completion attached (yes/no)	

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT F - KEY SITE STAFF (CV AND CERTIFICATES MUST BE ATTACHED)

Please provide CVs indicating number of years of experience together with Educational and Technical Certificates and photo id.

#	Key Site Staff
1	Name: Title/ Position: Description of Education Qualification: Description of Relevant Work Experience:
2	Name: Title/ Position: Description of Education Qualification: Description of Relevant Work Experience:

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

3	Name: Title/ Position: Description of Education Qualification: Description of Relevant Work Experience:
4	Name: Title/ Position: Description of Education Qualification: Description of Relevant Work Experience:

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

5	Name: Title/ Position: Description of Education Qualification: Description of Relevant Work Experience:
6	Name: Title/ Position: Description of Education Qualification: Description of Relevant Work Experience:

I hereby certify that all CV's are attached.

SIGNED: _____

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT G - LIST OF EQUIPMENT

The Bidder will state the make and model (brand), year of manufacture, confirm whether each required piece of equipment is in proper working order, and indicate ownership (or rental) of each required piece of equipment.

Bidder MUST attach proof of lease or ownership documentation.

#	Equipment Name	Min Number required	Model	Year of manufacture	# allocated for the project	Owned/ Hired
1	Excavator/Backhoe	1				
2	Concrete Mixer	1				
3	Vibrator	2				
4	Mobile Water Tanker	1				
5	Hand tools such as Shovels, pickaxe (Set)	1				
6	Wheelbarrows	5				
7	Water pump	2				
8	Generator	1				
9	Electrical Tools (Set)	2				
10	Dump Truck	1				
11	Pick up	1				
12	Flatbed Truck	1				
13	Crane	1				

We hereby certify that notwithstanding the list of equipment detailed above, we will provide sufficient, suitable and adequate equipment in good working order for the successful completion of works.

Signature of Bidder

Date

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT H - VALUE OF THE WORKS CURRENTLY UNDER CONTRACT (ONGOING WORKS)

The bidder is to list the construction projects which he is currently executing, their value and the expected completion date.

#	Project Name	Date Completed	Contract Sum (Indicate GBP)	Clients' Name and Address
1				
2				
3				
4				
5				
6				
TOTAL				

Signature of Bidder

Date

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT I - LIST OF LOCAL LABOURERS

The bidder having worked a detailed methodology should have a clear view of the amount of labour effort required in completion of the works. It is recommended to use local labour as far as practicable in the works and additional scores will be obtained on use of female labour.

Type of Local Labour	Total Number of Local Males	Total Number of Local Females
Skilled		
Unskilled		
TOTAL LOCAL LABOUR		

Signature of Bidder

Date

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT J - METHODOLOGY WORK SCHEDULE

J-1 Methodology (describe major activities and how will they be implemented: procurement, mobilisation to project site (including materials delivery and project office and housing for workers), and all construction activities excavation, demolition, floors, walls, ring beam, ceiling, finishing, water supply and distribution system, electrical supply and distribution system, latrines, and landscaping) The duration for each activity with a planned start and end date, How supervision will be monitored weekly, proposed a payment schedule base on progress for each BOQ line item .

Major Activities (please describe how they will be implemented).

Supervision and Quality Control (please describe how is to be done)

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PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

J-2 Work Plan-The bidder shall break down their tasks and prepare a detailed resource-based programme of works on a Gantt chart to ensure completion within the stated time frame in the format shown below.

Location	Burao, Somaliland	PR NO	055
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PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT K - BANK DETAILS FOR PAYMENTS (VENDOR PAYMENT INFORMATION)
VENDOR PAYMENT INFORMATION

Vendor/Beneficiary Information:	
Vendor Name:	
Vendor Address:	

Beneficiary Bank/Account Information:	
Bank Name:	
Bank Address:	
Full Name on the Account:	
Account Number:	
Routing Number:	
SWIFT Code:	
IBAN:	

Intermediary Bank Information:	
Bank Name:	
Bank Address:	
Account Number:	
Routing Number:	
Other Information:	

Special Instructions/Other Information:

SECTION 3: SUPPORTING DOCUMENTATION (Tick as applicable)

- ☐ Bank-stamped confirmation letter
- ☐ Copy of cancelled cheque
- ☐ Recent bank statement (amounts may be masked)
- ☐ Certificate of Registration

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

SECTION 4: DECLARATION

I hereby confirm that the bank details provided above are accurate and correspond to the attached official bank documentation. I understand that providing incorrect information may result in payment delays. The organisation shall not be held liable for payments made to the bank account details provided in this form.

Authorised Signatory Name: _____

Title: _____

Signature: _____

Date: _____

Location	Burao, Somaliland	PR NO	055
MONTH	September-November 2026		
PROJECT NAME	PURCHASE, SUPPLY & INSTALLATION OF 195 SOLAR STREET LIGHTS IN BURAO		

ATTACHMENT L - COST PROPOSAL – BILL OF QUANTITIES (TO BE FILLED)

Bills of Quantities - Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Technical Specifications, Designs and Drawings.
2. The rates and prices bid in the Bill of Quantities should include all labour, supervision, materials, equipment, erection, maintenance, insurance, **taxes, and duties**, together with all general risks, liabilities, and obligations set out or implied in the Contract.
3. A rate or price shall be entered against each item in the Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Bidder has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
4. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the un-priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
5. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the Bill of Quantities.
6. The method of measurement of completed work for payment shall be in accordance with CESMM - Civil Engineering Standard Method of Measurement.

Errors will be corrected by the Employer for any arithmetic errors in computation or summation as follows: Where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and the total amount derived from the multiplication of the unit price and the quantity, the unit rate as quoted will govern, unless in the opinion of the Bid Committee, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected.

Bidders Compliance Table to Minimum Technical Requirements

Bidders shall complete the following Compliance Table to demonstrate conformity with the technical specifications and scope of supply for **Purchase, Supply and Installations of Solar Street Lights**. The Compliance Table shall clearly indicate whether the offered equipment and services **fully Comply**, **Partially Comply**, or **Do Not Comply** with each requirement. Any deviation shall be clearly described and supported by technical documentation.

Ref. No.	Component	Specification Requirement	Compliance (Yes/No)	Remarks
1	Solar PV Module	150 Wp, mono-crystalline, $\geq 20\%$ efficiency, 18 V nominal		
2	Battery Type	LiFePO ₄ , 12 V, 150 Ah		
3	Battery Performance	$\geq 80\%$ DoD, $\geq 2,000$ cycles		
4	LED Luminaire Power	150 W		
5	LED Efficacy	≥ 150 lm/W		
6	LED CCT	5000K–6500K		
7	Luminaire Protection	IP66, aluminum housing		
8	Charge Controller	10 A MPPT, LiFe PO ₄ compatible		
9	Control Function	Automatic dusk-to-dawn operation		
10	Pole Height	As per BOQ- HDG steel		
11	Base Plate	300 × 300 × 20 mm		
12	Anchor Bolts	As per drawings and BOQ		
13	Mounting Hardware	Integrated brackets for PV, battery, luminaire		
14	High Wind Resistance	≥ 150 km/h		

Bidder Declaration

We hereby certify that the equipment and services offered under this bid comply with the above technical specifications except as explicitly stated under the “Deviation / Alternative Offered” column.

Bidder Name of Company: _____

Authorized Representative: _____

Signature: _____

Date: _____

CERTIFICATE FOR VERIFICATION OF DRAWINGS AND BOQ QUANTITIES

Project PR Number: PR 055

Project Title: Purchase, Supply & Installation of 195 Solar Street Lights in Burao

Bidder's Name: _____

Bidder's Address: _____

Bidder's Telephone: _____

Bidder's E-mail: _____

Date: _____

BOQ Amount: GBP £ _____

THE UNDERSIGNED CONTRACTOR HEREBY CERTIFIES THAT:

1. The Contractor has reviewed the "Bid Price" section in the bid book and fully understands the following:
 - i. Bidders are responsible for checking the accuracy of the BOQ. If significant deficiencies are identified between the BOQ and Drawings, the bidder should reflect those discrepancies in the BOQ as a separate line item and should bring the discrepancies to the attention of the evaluating committee with a footnote. The Contract shall be for the whole Works computed based on the unit rates and prices in the Bill of Quantities submitted by the bidder. The bidder shall fill in prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the bidder will not be paid for when executed and shall be deemed covered by the rates for other items and prices in the Bill of quantities. The costs provided have been satisfactorily agreed upon by the vendor and are considered fair and reasonable rates.
 - ii. Should the contract be awarded, the contractor agrees not to make any claims or request variations due to site visit conditions or discrepancies found between the drawings and the BOQ during the execution of the work.

COST PROPOSAL TABLE - BILL OF QUANTITIES (BOQ)**BILL OF QUANTITY (BOQ)****Program Name: SINAAN PROGRAMME****Project Name: Purchase, Supply, Installation, Testing and Commissioning of 195 Stand-alone Solar Street Lighting (5.883 km)****Project Location: Burao, Somaliland****Name of
Organization/Firm:****BILL SUMMARY**

S#	ITEM DESCRIPTION	AMOUNT (GBP)
1	Preliminaries, Safety Gear, Training and Shipping	-
2	Kaafi – Saylada Road (1.5 km, 30mt Span Single Arm SSL)	-
3	Silanyo Roundabout – Barkulan Road (3.0 km, 30mt Span Single Arm SSL)	-
4	Silanyo Roundabout – Municipality HQ (0.48 km, 30mt Span Single Arm SSL)	-
5	Yemeni Hotel – Burao University Corridor (0.75 km, 30mt Span Single Arm SSL)	-
6	Muni admin Corridor (Ring Road), 0.9 km, 30mt span Double Arm SSL	-
7	Maintenance Kits	-
8	Mandatory spare Parts	-
9	Contractors All Risk Insurance Provide Quotation from well know and established Insurance Company with Policy Information to be provided as per guidance in Attachment IV In the RFP)	
GRAND TOTAL		-

**GRAND TOTAL in
Words:****Note**

1. All quoted price shall include materials mobilization, transportation and labor cost.
2. The Bidder MUST provide Excel file and signed and stamp PDF copy of this document

SIGNATURE

STAMP

BILL OF QUANTITY

Program Name: SINAAN PROGRAMME

Project Name: Purchase, Supply, Installation, Testing and Commissioning of Stand-alone Solar Street Lighting (5.883 km)

Project Location: Burao, Somaliland

Name of Organization/Firm:

1	PRELIMINARIES	Unit	Quantity	DAP Unit Price (GBP)	DAP Total Price (GBP)
1.1	Mobilization and Demobilization, preliminary works, clearing of site , site establishment including all required necessary construction materials and tools.	LS	1.00		-
2	SAFETY GEAR ASSORTED FOR CONTRACTOR STAFF				
2.1	Reflector Jackets	L.S	15.00		-
2.2	Safety Shoes	L.S	15.00		-
2.3	Helmet	L.S	15.00		-
2.4	Safety Glasses	L.S	15.00		-
2.5	Gloves	L.S	15.00		-
3	TRAININGS				
3.1	Onsite Training for Operation and Maintenance	L.S	1.00		-
4	SHIPPING/FREIGHT				
4.1	Material Shipping/Freight, transport, insurance, and customs cost for all sites	L.S	1.00		-
GRAND TOTAL					-

Sub Total in words :

NAME OF BIDDER:

SIGNATURE OF BIDDER:

BILL OF QUANTITY (BOQ)					
Program Name: SINAAN PROGRAMME					
Project Name: Purchase Supply and Installation of 32 Solar Street Lights (0.97km, 30mt Span)					
Project Location: Burao, Somaliland					
Name of Organization/Firm:					
Item No.	Description	Unit	Quantity	DAP Unit Price (GBP)	DAP Total Price (GBP)
1.1	Excavation for foundation of the pole in all soil types, not exceeding 1.1 m depth, including dressing, disposal of surplus material, dewatering where required, and all associated works.	m³	17.25		-
1.2	Reinforced concrete foundation complete with anchor bolts, reinforcement steel, formwork, concrete (minimum 3000 psi), curing, backfilling and all associated works as specified.	m³	28.22		-
2	PURCHASE, SUPPLY AND INSTALLATION OF COMPLETE SOLAR STREET LIGHT SYSTEM				
2.1	LED Luminaire, 150 W , efficacy ≥150 lm/W, IP66, aluminium housing, 5000–6500 K complete with all accessories.	Pcs	32		-
2.2	PV Module, 150 Wp Mono-crystalline , complete with mounting accessories.	Pcs	32		-
2.3	Battery, 12.8 V, 150 Ah LiFePO₄ , 80% DOD, >2000 cycles with complete with battery enclosure, DC SPD and all relevant accessories.	Pcs	32		-
2.4	MPPT Solar Charge Controller (10 A) with dusk-to-dawn control and protections.	Pcs	32		-
2.5	8 m Hot-Dip Galvanized Steel Pole : base plate 300x300x20mm; 4XM24 anchor bolts, wind load compliant complete with outreach arm, base plate, anchor bolts and accessories.	Pcs	32		-
2.6	Supply and installation 2/24 V DC , with a mimum detection range of 15m, weatherproof passive infrared (PIR) motion sensor suitable for outdoor solar street lighting applications, fully compatible with solar charge controller and LED luminaire. Sensor shall enable automatic light intensity control based on motion detection. Includes mounting, cabling, programming, testing, and commissioning complete in all respects.	Pcs	32		-
3	INSTALLATION & COMMISSIONING				
3.1	Installation, testing, commissioning, photometric testing, GPS recording, training, documentation and handover.	Lot	1		-
SUBTOTAL					-
Sub Total in words :					
NAME OF BIDDER:					
SIGNATURE OF BIDDER:					

BILL OF QUANTITY (BOQ)

Program Name: SINAAN PROGRAMME

Project Name: Purchase Supply and Installation of 36 Solar Street Lights (1.07km, 30mt Span)

Project Location: Burao, Somaliland

Name of Organization/Firm:

Item No.	Description	Unit	Quantity	DAP Unit Price (GBP)	DAP Total Price (GBP)
1.1	Excavation for foundation of the pole in all soil types, not exceeding 1.1 m depth, including dressing, disposal of surplus material, dewatering where required, and all associated works.	m³	19.40		-
1.2	Reinforced concrete foundation complete with anchor bolts, reinforcement steel, formwork, concrete (minimum 3000 psi), curing, backfilling and all associated works as specified.	m³	31.75		-
2	PURCHASE, SUPPLY AND INSTALLATION OF COMPLETE SOLAR STREET LIGHT SYSTEM				
2.1	LED Luminaire, 150 W , efficacy ≥150 lm/W, IP66, aluminium housing, 5000–6500 K complete with all accessories.	Pcs	36		-
2.2	PV Module, 150 Wp Mono-crystalline , complete with mounting accessories.	Pcs	36		-
2.3	Battery, 12.8 V, 150 Ah LiFePO₄ , 80% DOD, >2000 cycles with complete with battery enclosure, DC SPD and all relevant accessories.	Pcs	36		-
2.4	MPPT Solar Charge Controller (10 A) with dusk-to-dawn control and protections.	Pcs	36		-
2.5	8 m Hot-Dip Galvanized Steel Pole : base plate 300x300x20mm; 4XM24 anchor bolts, wind load compliant complete with outreach arm, base plate, anchor bolts and accessories.	Pcs	36		-
2.6	Supply and installation 2/24 V DC , with a mimum detection range of 15m, weatherproof passive infrared (PIR) motion sensor suitable for outdoor solar street lighting applications, fully compatible with solar charge controller and LED luminaire. Sensor shall enable automatic light intensity control based on motion detection. Includes mounting, cabling, programming, testing, and commissioning complete in all respects.	Pcs	36		-
3	INSTALLATION & COMMISSIONING				
3.1	Installation, testing, commissioning, photometric testing, GPS recording, training, documentation and handover.	Lot	1		-
SUBTOTAL					-

Sub Total in words :

NAME OF BIDDER:

SIGNATURE OF BIDDER:

BILL OF QUANTITY (BOQ)					
Program Name: SINAAN PROGRAMME					
Project Name: Purchase Supply and Installation of 42 Solar Street Lights (1.275km, 30mt Span)					
Project Location: Burao, Somaliland					
Name of Organization/Firm:					
Item No.	Description	Unit	Quantity	DAP Unit Price (GBP)	DAP Total Price (GBP)
1.1	Excavation for foundation of the pole in all soil types, not exceeding 1.1 m depth, including dressing, disposal of surplus material, dewatering where required, and all associated works.	m³	22.64		-
1.2	Reinforced concrete foundation complete with anchor bolts, reinforcement steel, formwork, concrete (minimum 3000 psi), curing, backfilling and all associated works as specified.	m³	37.04		-
2	PURCHASE, SUPPLY AND INSTALLATION OF COMPLETE SOLAR STREET LIGHT SYSTEM				
2.1	LED Luminaire, 150 W, efficacy ≥150 lm/W, IP66, aluminium housing, 5000–6500 K complete with all accessories.	Pcs	42		-
2.2	PV Module, 150 Wp Mono-crystalline, complete with mounting accessories.	Pcs	42		-
2.3	Battery, 12.8 V, 150 Ah LiFePO₄, 80% DOD, >2000 cycles with complete with battery enclosure, DC SPD and all relevant accessories.	Pcs	42		-
2.4	MPPT Solar Charge Controller (10 A) with dusk-to-dawn control and protections.	Pcs	42		-
2.5	8 m Hot-Dip Galvanized Steel Pole : base plate 300x300x20mm; 4XM24 anchor bolts, wind load compliant complete with outreach arm, base plate, anchor bolts and accessories.	Pcs	42		-
2.6	Supply and installation 2/24 V DC , with a mimum detection range of 15m, weatherproof passive infrared (PIR) motion sensor suitable for outdoor solar street lighting applications, fully compatible with solar charge controller and LED luminaire. Sensor shall enable automatic light intensity control based on motion detection. Includes mounting, cabling, programming, testing, and commissioning complete in all respects.	Pcs	42		-
3	INSTALLATION & COMMISSIONING				
3.1	Installation, testing, commissioning, photometric testing, GPS recording, training, documentation and handover.	Lot	1		-
SUBTOTAL					-
Sub Total in words :					
NAME OF BIDDER:					
SIGNATURE OF BIDDER:					

BILL OF QUANTITY (BOQ)					
Program Name: SINAAN PROGRAMME					
Project Name: Purchase Supply and Installation of 45 Solar Street Lights (1.35km, 30mt Span)					
Project Location: Burao, Somaliland					
Name of Organization/Firm:					
Item No.	Description	Unit	Quantity	DAP Unit Price (GBP)	DAP Total Price (GBP)
1.1	Excavation for foundation of the pole in all soil types, not exceeding 1.1 m depth, including dressing, disposal of surplus material, dewatering where required, and all associated works.	m³	24.25		-
1.2	Reinforced concrete foundation complete with anchor bolts, reinforcement steel, formwork, concrete (minimum 3000 psi), curing, backfilling and all associated works as specified.	m³	39.69		-
2	PURCHASE, SUPPLY AND INSTALLATION OF COMPLETE SOLAR STREET LIGHT SYSTEM				
2.1	LED Luminaire, 150 W, efficacy ≥150 lm/W, IP66, aluminium housing, 5000–6500 K complete with all accessories.	Pcs	45		-
2.2	PV Module, 150 Wp Mono-crystalline, complete with mounting accessories.	Pcs	45		-
2.3	Battery, 12.8 V, 150 Ah LiFePO₄, 80% DOD, >2000 cycles with complete with battery enclosure, DC SPD and all relevant accessories.	Pcs	45		-
2.4	MPPT Solar Charge Controller (10 A) with dusk-to-dawn control and protections.	Pcs	45		-
2.5	8 m Hot-Dip Galvanized Steel Pole : base plate 300x300x20mm; 4XM24 anchor bolts, wind load compliant complete with outreach arm, base plate, anchor bolts and accessories.	Pcs	45		-
2.6	Supply and installation 2/24 V DC , with a mimum detection range of 15m, weatherproof passive infrared (PIR) motion sensor suitable for outdoor solar street lighting applications, fully compatible with solar charge controller and LED luminaire. Sensor shall enable automatic light intensity control based on motion detection. Includes mounting, cabling, programming, testing, and commissioning complete in all respects.	Pcs	45		-
3	INSTALLATION & COMMISSIONING				
3.1	Installation, testing, commissioning, photometric testing, GPS recording, training, documentation and handover.	Lot	1		-
SUBTOTAL					-
Sub Total in words :					
NAME OF BIDDER:					
SIGNATURE OF BIDDER:					

BILL OF QUANTITY (BOQ)					
Program Name: SINAAN PROGRAMME					
Project Name: Purchase Supply and Installation of 40 Solar Street Lights (1.21km, Double Arm 30mt Span)					
Project Location: Burao, Somaliland					
Name of Organization/Firm:					
Item No.	Description	Unit	Quantity	DAP Unit Price (GBP)	DAP Total Price (GBP)
1.1	Excavation for foundation of the pole in all soil types, not exceeding 1.1 m depth, including dressing, disposal of surplus material, dewatering where required, and all associated works.	m³	21.56		-
1.2	Reinforced concrete foundation complete with anchor bolts, reinforcement steel, formwork, concrete (minimum 3000 psi), curing, backfilling and all associated works as specified.	m³	35.28		-
2	PURCHASE, SUPPLY AND INSTALLATION OF COMPLETE SOLAR STREET LIGHT SYSTEM				
2.1	LED Luminaire, 150 W, efficacy ≥150 lm/W, IP66, aluminium housing, 5000–6500 K, complete with all accessories. (2 luminaires per pole)	Pcs	80		-
2.2	PV Module, 150 Wp Mono-crystalline, complete with galvanized mounting brackets and accessories. (2 modules per pole)	Pcs	80		-
2.3	Battery, 12.8 V, 150 Ah LiFePO₄, 80% DOD, >2000 cycles with complete with battery enclosure, DC SPD and all relevant accessories. (2 batteries per pole)	Pcs	80		-
2.4	MPPT Solar Charge Controller (10 A) with dusk-to-dawn control, battery management, surge protection and all accessories. (2 controllers per pole)	Pcs	80		-
2.5	10 m Hot-Dip Galvanized Octagonal Steel Pole, minimum 3 mm wall thickness, hot-dip galvanized to ISO 1461, complete with double outreach arms, 300x300x20mm base plate, 4XM24 anchor bolts, foundation template, hand-hole, cable gland, terminal block, earthing connection, anti-theft locking system, and all accessories.	Pcs	40		-
2.6	Outdoor PIR Motion Sensor (24 V DC), complete with mounting brackets, wiring, programming, testing and commissioning.	Pcs	40		-
2.7	1 m × 1 m (Square) Double-Sided (Dual-Screen) Solar-Powered Smart LED Outdoor Billboard, comprising two independent full-colour LED display screens, one facing the front and one facing the rear/back side, minimum P5/P6 pixel pitch, IP65 protection rating, integrated industrial controller, 4G/Wi-Fi remote communication, programmable content management system, galvanized steel support frame, complete with mounting brackets and hardware, wiring and accessories, system configuration, testing, commissioning, and operator training, all as directed by the Engineer.	Pcs	8		-
3	INSTALLATION & COMMISSIONING				
3.1	Installation, testing, commissioning, photometric testing, GPS recording, training, documentation and handover.	Lot	1		-
SUBTOTAL					-
Sub Total in words :					
NAME OF BIDDER:					
SIGNATURE OF BIDDER:					

MANDATORY MAINTENANCE TOOLS KIT

Purchase, Supply and Delivery of Maintenance Tools for 5.883.km Stand-alone Solar Street Lighting System

**Name of
Organization/Firm:**

Item No.	Description	Unit	Qty	DAP Unit Price (GBP)	DAP Total Price (GBP)
MT1	Digital True RMS Multimeter (Industrial Grade)	No	1		-
MT2	DC Clamp Meter (1000 A AC/DC)	No	1		-
MT3	Insulation Resistance Tester (1000 V Megger)	No	1		-
MT4	Earth Resistance Tester	No	1		-
MT5	Solar PV I-V Tester	No	1		-
MT6	Digital Lux Meter	No	1		-
MT7	Battery Capacity Tester	No	1		-
MT8	MC4 Crimping Tool	No	1		-
MT9	MC4 Connector Assembly Tool Kit	Set	1		-
MT10	Hydraulic Cable Lug Crimping Tool	No	1		-
MT11	Torque Wrench Set	Set	1		-
MT12	Complete Electrician Tool Kit	Set	1		-
MT13	Insulated Screwdriver Set	Set	1		-
MT14	Socket & Spanner Set	Set	1		-
MT15	Cordless Drill Kit (Professional Grade)	No	1		-
MT16	Portable Fiberglass Extension Ladder (8–10 m)	No	1		-
MT17	Portable Safety Harness with Double Lanyard	Set	2		-
MT18	Safety Helmet	No	4		-
MT19	High-Visibility Safety Vest	No	4		-
MT20	Insulated Electrical Gloves	Pair	4		-
MT21	Safety Boots	Pair	4		-
MT22	Lock-Out/Tag-Out (LOTO) Kit	Set	1		-
MT23	Industrial First Aid Kit	Set	1		-
MT24	Heavy-Duty Lockable Tool Box	No	1		-
MT25	GPS Handheld Device (Asset Mapping & Pole Location)	No	1		-
MT26	Portable LED Work Light (Rechargeable)	No	2		-
MT27	Digital Compass / Clinometer	No	1		-
MT28	Cable Fault Finder / Cable Continuity Tester	No	1		-
SUBTOTAL					-

Sub Total in words :

NAME OF BIDDER:

SIGNATURE OF BIDDER:

Purchase, Supply and Deliver Mandatory Spare parts

Purchase, Supply and Delivery of Mandatory Spare Parts for Stand-alone Solar Street Lighting System (5.883 km)

Project Location: Burao, Somaliland

Name of Organization/Firm:

Item No.	Description	Unit	Qty	DAP Unit Price (GBP)	DAP Total Price (GBP)
SP1	Complete LED Luminaire (100–120 W)	No	4		-
SP2	LED Driver	No	4		-
SP3	PV Module, 150 Wp Mono-crystalline , complete with mounting accessories.	No	4		-
SP4	LiFePO ₄ Battery Pack (same capacity as installed)	No	4		-
SP5	8 m Hot-Dip Galvanized Steel Pole complete with outreach arm, base plate, anchor bolts and accessories.	No	4		-
SP6	MPPT Solar Charge Controller	No	4		-
SP7	Photocell / Dusk-to-Dawn Controller	No	5		-
SP8	DC Surge Protection Device (SPD)	No	5		-
SP9	DC Fuse Set	Set	5		-
SP10	Miniature Circuit Breaker (MCB)	No	5		-
SP11	Cable Glands (Complete Assortment)	Set	10		-
SP12	MC4 Connector Pair	Pair	12		-
SP13	Weatherproof Junction Box (IP66)	No	5		-
SP14	Pole Access Door Lock with Key	No	5		-
SP15	Pole Fuse Holder Assembly	No	5		-
SP16	Anchor Bolt Set (M24 × 4 with Nuts & Washers)	Set	3		-
SP17	Stainless Steel Fasteners Assortment	Lot	1		-
SP18	Pole Identification Plate	No	5		-
SP19	Copper Earth Rod (16 mm × 2.4 m Copper Bonded)	No	3		-
SP20	Earth Clamp & Accessories	Set	3		-
SP21	Internal Pole Wiring Kit	Set	5		-
SP22	Complete Spare Cable Termination Kit	Set	3		-
SP23	LED Optical Lens / Lens Cover Assembly	No	3		-
SP24	Waterproof Cable Connector Kit (IP68)	Set	5		-
SP25	Silicone Gasket & Pole Door Seal Kit	Set	5		-
SP26	Anti-Corrosion Touch-up Paint Kit (HDG Pole Repair)	Set	2		-
SP27	Spare PIR Motion Sensor (if installed)	No	5		-
SP28	RTC/Controller Backup Battery	No	5		-
SUBTOTAL					-

Sub Total in words :

NAME OF BIDDER:

SIGNATURE OF BIDDER:

Specifications – Builders Works

The works shall involve the Purchase, Supply & Installation of 195 Solar Street Lights in Burao as detailed in the drawing and outlined in the BOQ.

The Bidder shall undertake the Purchase, Supply & Installation of 195 Solar Street Lights in Burao as shown on the designs and drawings in conformity with the Specifications. The Bidder shall at all times use the best available materials and use only suitable construction methods.

SINAAN PROGRAMME will provide detailed Specifications for Purchase, Supply & Installation of 195 Solar Street Lights in Burao after the contract is awarded. No separate payment and mode of measurement will be made and given to any separate payment rather than contract payment.

ANNEXES – The following annexes are incorporated as reference as they will apply to the contract award.

Annex 1 - Scope of Work (SOW) & Technical Specifications

Annex 2 - Design Drawings

Annex 3 - Quality Assurance & Control Plan (Template)

Annex 4 - Environmental Mitigation Requirements

Annex 5 - Health, Environmental, Safety & Security Plan (HESSP) Guide

ANNEX 1- Statement of Works (SOW) & Technical Specifications

Scope of Work (SoW)

Purchase, Supply and Installation of Solar Street lights - Burao, Somaliland

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SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

Project Name: Purchase, Supply and Installation of Solar streetlights

Location: Burao, Somaliland

The measured GPS Coordinates near the proposed location.

BURAO SOLAR STREET LIGHTING ROAD INFORMATION				
No	ROAD NAME/NO.	LATITUDE (N)	LONGTIDE (E)	LENGTH (mt)
1	Kaafi – Saylada Road			974
	Starting Point	9°32'2.53"N	45°32'24.17"E	
	End Point	9°32'30.79"N	45°32'17.25"E	
2	Silanyo Junction – Barkulan Road			1074
	Starting Point	9°32'1.65"N	45°32'24.73"E	
	End Point	9°31'55.04"N	9°31'55.04"N	
3	Silanyo RA–Municipality HQ Road			1275
	Starting Point	9°32'2.37"N	45°32'23.10"E	
	End Point	9°31'43.98"N	45°32'5.30"E	
4	Yemeni Hotel–Burao University Road			1350
	Starting Point	9°32'3.53"N	45°32'4.92"E	
	End Point	9°32'29.90"N	45°31'34.33"E	
5	Muni Admin Corridor Road (RA) Double Arm			1210
	Starting Point	9°31'47.37"N	45°32'13.44"E	
	End Point	9°31'12.08"N	45°32'21.34"E	
TOTAL LENGTHS OF THE ROAD (mt)				5883

A. General Description

This Scope of Works defines the requirements for the supply, installation, testing, commissioning, and operation and maintenance of a standalone solar-powered street lighting system along a total road length of 5.883 km in Burao. The project covers both a main road corridor and a smaller secondary road, using different pole heights suited to road width, traffic volume, and lighting requirements.

The scope includes complete, self-sufficient solar streetlight units comprising solar photovoltaic (PV) modules, LED luminaires, energy storage batteries, charge controllers, poles, foundations, cabling,

protection devices, and all associated civil, electrical, and mechanical works, required to deliver a fully functional and reliable lighting system.

Each solar streetlight system shall operate independently of the utility grid, utilizing renewable solar energy to provide automatic dusk-to-dawn illumination, ensuring improved safety, mobility, and public service delivery under local environmental conditions.

The Contractor shall be responsible for delivering a turn-key solution, including compliance with applicable international standards, quality assurance, environmental and social safeguards, and full Operation and Maintenance (O&M) during the Defects Notification Period.

B. Background

Burao is the capital of Togdheer Region and one of Somaliland's major administrative, commercial, livestock and logistics centres. The city is strategically located along the Berbera–Burao–Lassanod transport corridor and serves surrounding communities and regional economic activity. Urban growth and expanding municipal responsibilities are increasing demand for reliable electricity for public administration, healthcare, emergency response, public safety and community services.

Burao Municipality has requested SINAAN for supply and installation of Solar Street Lights on selected roads as the absence of reliable street lighting has become one of the principal urban infrastructure challenges in Burao. Poor nighttime visibility affects road safety, public security, and access to essential services, while limiting commercial activity and reducing the overall effectiveness of recent investments in transport infrastructure. These challenges disproportionately affect women, children, students, informal traders, and other vulnerable groups who depend on safe and accessible public spaces after sunset.

Recognizing these constraints, Burao Municipality has identified the expansion of solar-powered street lighting as a strategic priority within its urban development agenda. The proposed intervention supports the municipality's objectives of improving public safety, strengthening climate resilience, promoting renewable energy adoption, and reducing long-term operational costs associated with conventional street lighting systems.

Solar street lighting provides a cost-effective, environmentally sustainable, and resilient solution, particularly suitable for urban and peri-urban areas with high solar irradiation and limited grid infrastructure. The systems will contribute to:

- Reduced greenhouse gas emissions
- Lower long-term operational and maintenance costs
- Improved safety, security, and urban functionality
- Enhanced resilience of municipal infrastructure

C. Objectives

The primary objectives are as follows:

C.1 Technical Objectives

- Supply and install high-quality, durable, and reliable solar streetlight systems
- Ensure automatic dusk-to-dawn operation with consistent lighting performance
- Provide systems capable of continuous night-time operation with sufficient battery autonomy
- Ensure compliance with international technical, safety, and performance standards

C.2. Operational Objectives

- Minimize system downtime through preventive and corrective maintenance
- Enable easy maintenance and component replacement using standardized designs

C.3. Social and Economic Objectives

- Improve road safety and pedestrian security
- Enhance night-time economic and social activities
- Increase community confidence and public space usability
- Promote local employment through engagement of local labor where feasible

C.4. Environmental Objectives

- Reduce dependence on fossil-fuel-based lighting

- Lower carbon emissions associated with public lighting
- Promote clean and renewable energy solutions in municipal infrastructure

D. Expected Outcomes and Targets

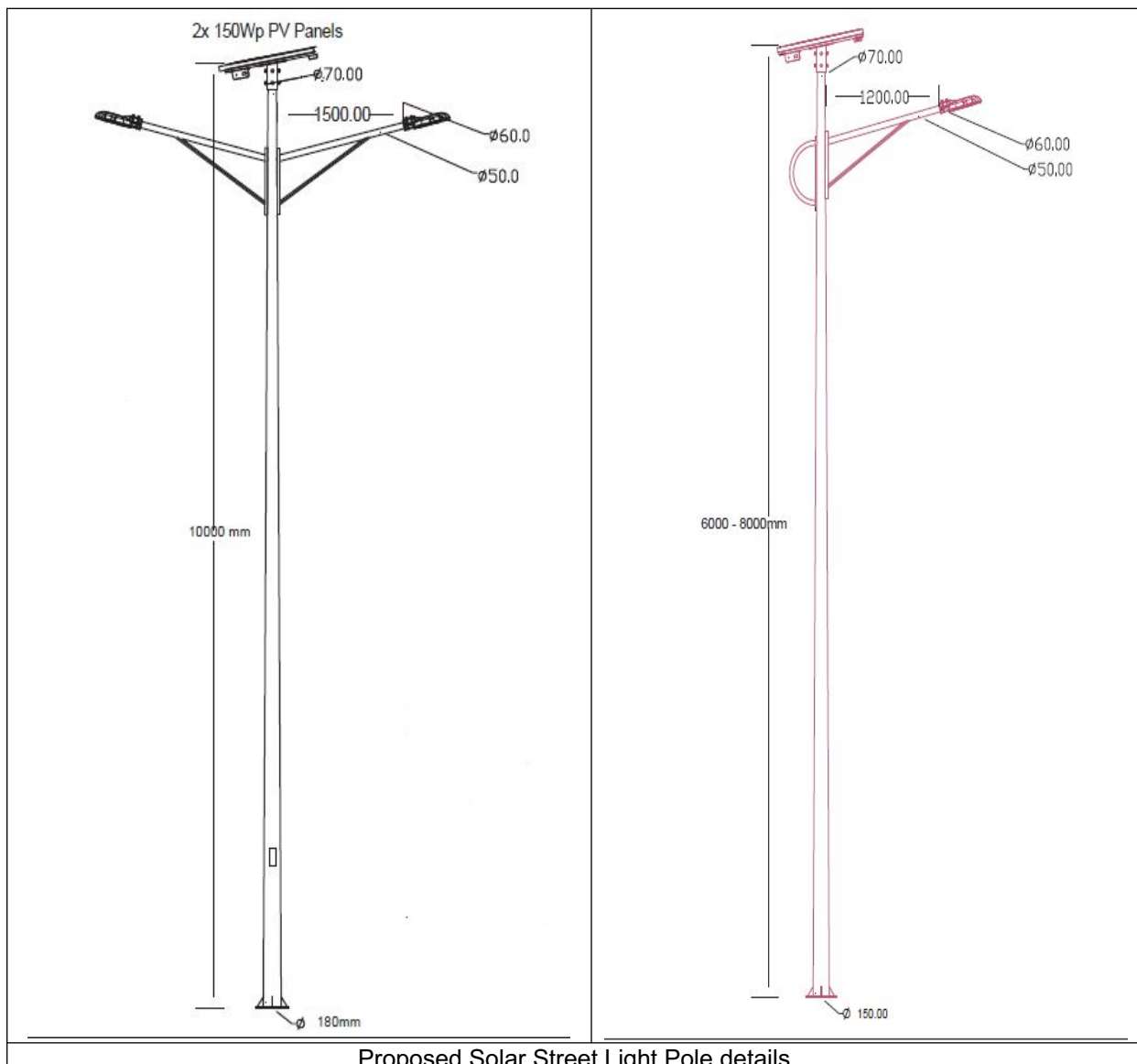
Upon successful completion, the following outcomes are expected:

- Fully operational solar streetlight network covering the specified road sections
- Minimum 10–12 hours of illumination per night
- Battery autonomy of 2–3 consecutive nights without solar input
- Improved public safety, visibility, and security
- Reduced municipal expenditure on conventional lighting systems

E. Activities (Summary)

The Contractor shall carry out, but not be limited to, the following activities:

- Site clearance and setting-out
- Civil works including excavation and foundation construction
- Supply and installation of poles, PV modules, batteries, controllers, and luminaires
- Electrical wiring & Conduits, protection, and system integration as per the below design
- Testing and commissioning of each streetlight unit
- Training of designated personnel
- Operation and Maintenance during the DNP



F. Specifications and Scope of Supply

The works to be carried out involve but are not limited to:

Solar Photovoltaic Street Lighting, as per design, The Contractor shall supply, install, test, and commission standalone solar-powered LED street lighting systems, complete with all electrical, mechanical, and civil works required for fully operational units. Each system shall be designed for reliable outdoor operation under local environmental conditions and shall operate independently of the utility grid. Standard solar Photo Voltaic Street Lighting system comprises a LED lighting lamp, photovoltaic module, rechargeable battery, solar charger controller, light pole, operation, instruction, and maintenance manual.

F.1.1. Solar Photovoltaic (PV) Module

Each solar street light shall be equipped with a monocrystalline solar PV module with a minimum rated capacity of 150 Wp per unit. The module shall have a minimum efficiency of 20% and a nominal voltage of 18 V. The PV module shall be manufactured using tempered glass and an anodized aluminum frame, suitable for outdoor and corrosive environments. The module shall be securely mounted on the pole using an adjustable, corrosion-resistant mounting structure capable of withstanding the specified wind loads.

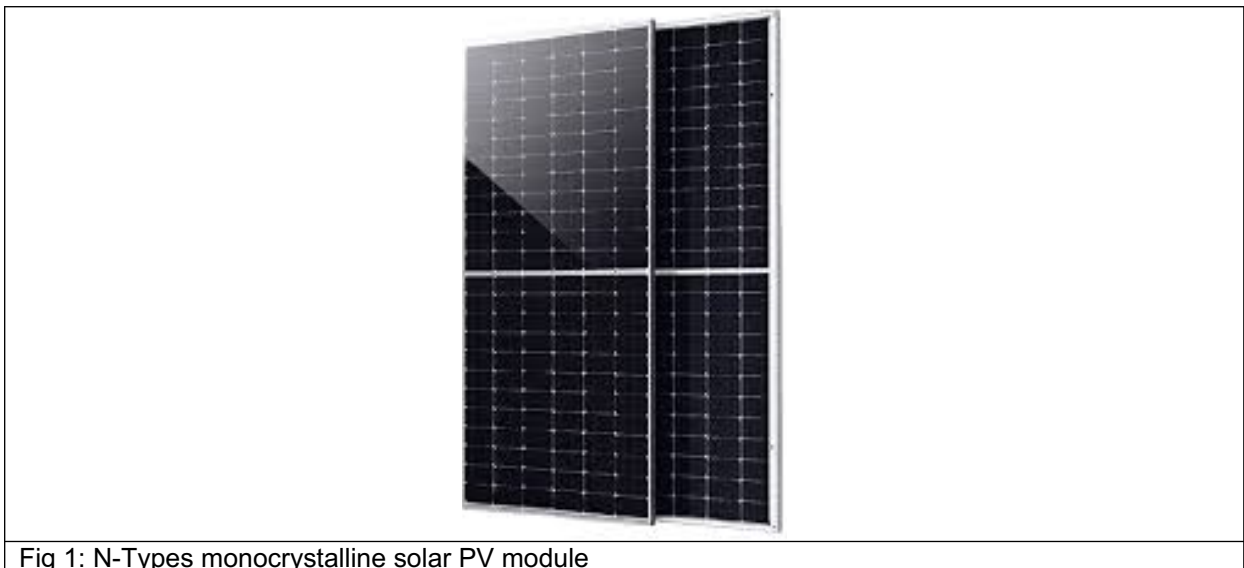


Fig 1: N-Types monocrystalline solar PV module

F.1.2. Battery Energy Storage System (BESS)

Each system shall include a Lithium Iron Phosphate (LiFePO_4) battery rated at 12 V, 150 Ah. The battery shall allow a minimum depth of discharge (DoD) of 80% and shall have a minimum cycle life of 2,000 cycles at rated operating conditions. The battery shall be designed for pole-mounted installation and enclosed in a weatherproof, lockable, and vandal-resistant housing. The battery system shall include an integrated Battery Management System (BMS) providing protection against over-charge, over-discharge, short circuit, and over-temperature.



Fig 2: Lithium Iron Phosphate (LiFePO₄) battery

F.1.3. LED Luminaire

The LED luminaire shall have a minimum rated power of 150 W with a luminous efficacy not less than 150 lumens per watt. The luminaire shall provide cool white illumination with a correlated color temperature (CCT) in the range of 5000K to 6500K. The housing shall be made of die-cast aluminum alloy with a minimum IP66 ingress protection rating. The luminaire shall be suitable for road and area lighting applications and designed for continuous outdoor operation.



FIG 3: EXAMPLES LED SOLAR LAMPS

F.1.4. Solar Charge Controller

Each system shall be provided with a 10 A MPPT solar charge controller compatible with LiFePO₄ battery technology. The controller shall optimize energy harvesting from the PV module and provide automatic dusk-to-dawn operation. The controller shall include comprehensive protections against over-voltage, over-current, reverse polarity, short circuit, over-charge, and over-discharge. All settings shall be factory programmed and protected against unauthorized access.

Charge controllers are basically DC-DC converters, where PWM or MPPT technique is used to regulate the switches of the controller. There are three general types of charge controller, mainly:

- Simple ON/OFF Controller
- Pulse Width Modulated (PWM) Controller
- Maximum Power Point Tracking (MPPT) Controller

Most charge controllers operate at three stages to complete the charging cycle of the batteries. These stages vary according to different times and battery voltages. PWM can be employed to control the charging at the stages:

- BULK stage
- ABSORPTION stage
- FLOAT stage



FIG 4: EXAMPLES OF CHARGER CONTROLLERS

F.1.5. Mechanical Hardware and Pole

The lighting pole shall be 8 meters high, manufactured from hot-dip galvanized (HDG) steel suitable for outdoor installation. The pole shall be supplied with a base plate of minimum size 300 × 300 × 20 mm and installed using four (15mm dia 1.5m long) anchor bolts fixed into a reinforced concrete foundation. The pole shall be designed to comply with applicable wind load requirements and shall include integrated brackets for mounting the PV module, LED luminaire, battery enclosure, and charge controller. All bolts, nuts, brackets, and fasteners shall be corrosion-resistant.

- The pole should be made of mild steel pipe with a height of at least 8 meters and 10 meter above the ground level, after grouting and final installation. The pole should have the provision to hold the weatherproof lamp housing. It should be painted with a corrosion resistant paint.
- A vented, acid proof and corrosion resistant painted metallic box for outdoor use should be provided for housing the battery.

Typical Parts of a Light Pole

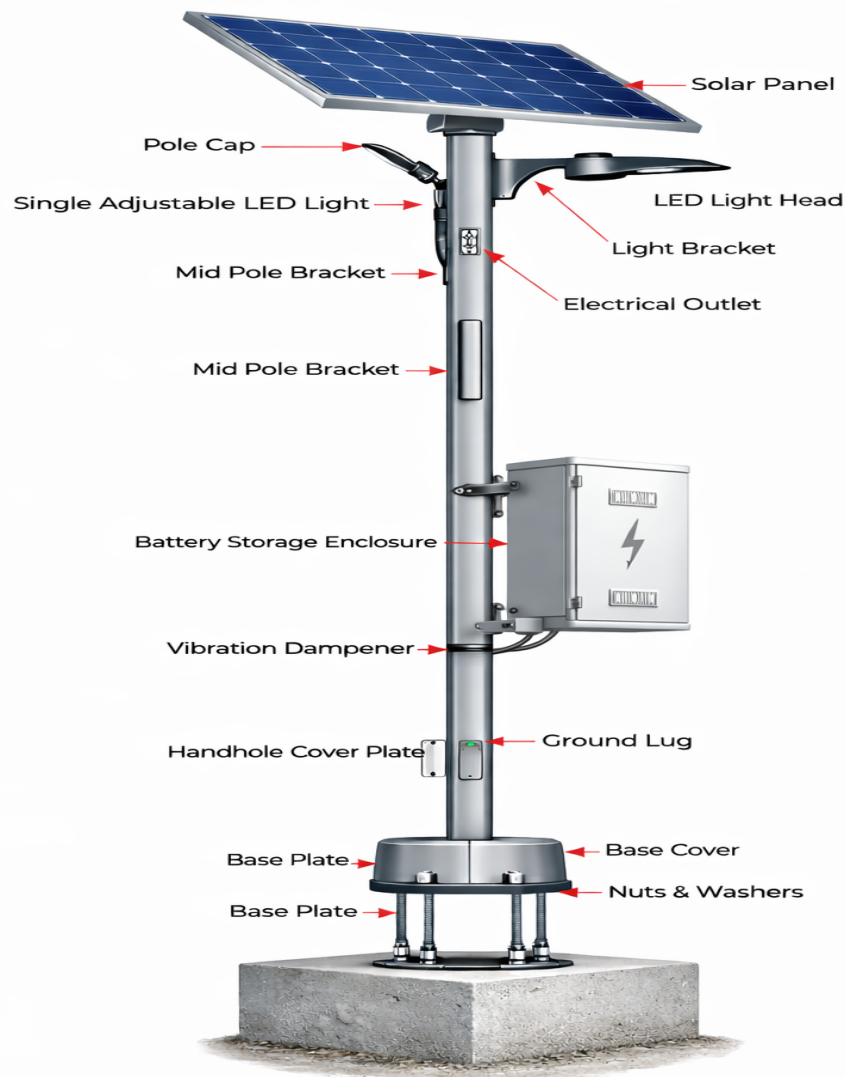


FIG 5: EXAMPLES OF INTEGRATED SOLAR STREETLIGHT

F.1.6. Other anticipated activities

As per request by DT GLOBAL SINAAN, sub-contractor shall provide sufficient site security for DT GLOBAL SINAAN site teams to do their site works as to be defined by the Health, Safety and Security Plan (HSSP).

The Contractor shall be entirely responsible for the security of all the works, stores, materials, plant, personnel, etc., both his own and any sub-contractors and shall provide all necessary watching, lighting, site and other precautions as necessary to ensure the security and the protection of the public.

G. Monitoring and Evaluation

G.1. Contractor Quality Control Plan (QCP)

DT GLOBAL SINAAN will provide the CC with the QCP Template as guidance for preparing QCP specific to the technical specifications and site characteristics unique to this construction activity.

A comprehensive QCP that follows this template shall be prepared by and to be submitted for approval to DT GLOBAL SINAAN. The CC shall acquire written approval of the QCP from DT GLOBAL SINAAN before commencing construction activities.

The QCP shall include all quality control (QC) activities for this project. Non-specific Plans that do not include testing plans, materials submittal plans, schedules, personnel, and other non-project-specific information will be rejected. Construction work will not be allowed to proceed without a project-specific, DT GLOBAL SINAAN approved QCP. The CC shall carefully review all QC requirements shown in the Specification for use as the basis for developing the QCP.

All activities and workmanship, labors and construction materials shall be continuously checked and monitored by qualified QC engineers employed by the CC. DT GLOBAL SINAAN reserves the right to demand the replacement of unqualified CC's QC personnel.

The minimum requirements of the CC's QCP are as follows:

- Organization Chart and Responsibilities of Key Management Staff
- Individual responsibilities with regard to QC for the following:
 - Director of the Company
 - CC's Quality Control Manager (QCM)
 - CC's Quality Control Engineer (QCE)
 - Project Manager
 - Outside Organizations (if any)
- Activities and Procedures adequate to demonstrate that all of the quality control requirements of the Specifications will be met by the procedures, schedules, and personnel shown in the plan.
- Testing Plan
- Testing Laboratory Information
- Procedures for completing Deficiencies/Rework Items
- List of definable features of work (DFOW)
- Procedures for Three Phase Control system.

G.2. HEALTH, Safety & Security Plan (HSSP)

DT GLOBAL SINAAN will provide the CC with the HSSP Template as guidance for preparing HSSP specific to the technical specifications and site characteristics unique to this activity.

A comprehensive HSSP that follows this template shall be prepared by and to be submitted for approval to DT GLOBAL SINAAN. The CC shall acquire written approval of the HSSP from DT GLOBAL SINAAN before commencing sub project physical activities.

At a minimum the CC's HSSP plan should address the following:

- Compliance with laws, rules, and regulations, including any updates.
- Duties and responsibilities of CC's Construction Manager and Safety Officer/representative, etc.
- Infractions of safety rules (timely correction, serious hazards; defined at first safety meeting, etc.)
- Details on Personal Protective Equipment (PPE) for all skilled and unskilled labor on the job site
- Housekeeping (continuous cleaning, final clean-up, designated staging plan, etc.)
- Means of implementing the program (weekly toolbox meeting, emergency procedures, emergency phone numbers, project bulletin board w/policies, Employees first aid info, tracking and report keeping procedure, etc)
- Accident investigation (investigation and reporting procedure, notification and distribution manuals, etc.)
- Safety Training for both skilled and unskilled laborers on the job site.
- The CC must maintain a well-equipped First Aid's Kit that contains all necessary medicines and medical tools should be provided on work site, and a person shall be trained to use first aid's kit, properly.
- A car must always be present in the site to transfer the injured person to the nearest hospital or clinic in the case of serious injury.

The HSSP will include the following plans for the CC's Site Security Program:

- Project site entry control and entry restrictions to be maintained.
- Site security services
- Security Organization Chart
- CV of a head security staff person
- Provided facilities/ equipment
- Emergency procedures
- Procedural manual for movement of vehicles
- Parking of Machinery at site
- Procedures to ascertain the nature of security threats in advance.
- Reporting requirements
- Evacuation Plan.

G.3. Environmental Mitigation and Monitoring

The CC must consider potential environmental impacts of construction related activities and implement the Environmental Mitigation and Monitoring Plan (EMMP) provided by DT GLOBAL SINAAN.

In order to document implementation of mitigation measures in compliance with the EMMP, the CC will complete Daily and Weekly Environmental Monitoring Checklists provided by DT GLOBAL SINAAN.

At a minimum, the EMMP will include specific mitigation measures that the CC must implement for the following:

- Hydrology, Floodplains, and Impacts to Surface Water Quality:
 - If project activities are located within floodplains or nearby surface water bodies, design structures appropriately to not cause upstream or downstream impacts, and design to withstand flood situations.
- Waste, Soil and Groundwater Contamination:
 - If chemicals are used during construction or if there is an oil or gas leak from the machinery, collect impacted soil and dispose of in approved municipal disposal area.
 - Avoid areas near wells and surface water, as well as areas that could drain into waterways or other sensitive areas.
 - Dispose of solid waste including machinery maintenance materials, such as oily rags, used oil filters, and used oil, as well as spill cleanup materials in the approved municipal disposal area.
- Borrow Pits and Quarries:
 - Document the quantity of construction material needed and its potential sources, based on the quantity and quality of material at various sites.
 - Identify locations, specify amounts to be removed from each site, and provide specific instructions for rehabilitation at each site.
 - Borrow pits must be located outside of an active watercourse, or located away from sensitive areas and agricultural land, and be collected in a manner that does not damage existing natural resources, if possible, locate on barren land.
- Dust Control:
 - Use water trucks/water to spray down dusty surfaces to reduce fugitive dust emissions.
- Erosion Control:
 - Use hay bales and silt fences for Erosion and Sedimentation Control
 - Replant vegetation of previously vegetated areas and embankments
 - Use riprap, gabions, fiber mats to control erosion and wash-out
 - Compensation for loss of land and resources, if negotiated with private parties

H. Special Instructions

- In order to complete this job in anticipated time duration, the CC should use well-equipped work teams simultaneously.

- The line items in the BOQ for the QCP and HSSP plans MUST include, at a minimum, costs related to all requirements detailed in this SOW.
- Unskilled labor will be recruited and employed from the region to the maximum extent practical. It is highly preferred that 100% of all unskilled labor be from the local District; however, should this prove unfeasible, under no circumstances may the unskilled labor rate from the province be below 90%, and the CC must demonstrate to the satisfaction of DT GLOBAL SINAAN why the rate is below 100%.
- The CC will pay all the related taxes or fees to Govt for all the material for the project and this point to be specified in the bid documents.
- Bidders will be required to attend a bidder's conference physically or virtually in order for bids to be considered.

I. Deliverables

The following deliverables are required:

- QCP
- HSSP
- Work Schedule
- Machinery and Equipment List with documents proving they are available for the duration of project.
- Weekly and Monthly Progress Report including photos with embedded date and time.
- Weekly Environmental Monitoring Checklists to document compliance with the EMMP
- Materials Testing Results
- Proposal for Changes, Revisions, Time Extension, etc.
- Complete Invoices according to DT GLOBAL SINAAN requirements.
- Documents such as ad hoc Special Reports, justifications, Prices of Construction Materials and Human Resources in Work Site, Agreements, and Certificates of CC's subcontractors, etc.
- Request for a final check of the punch list
- Final Status report.

J. Submittals

- A complete set of drawings provided by DT GLOBAL SINAAN include the followings:
- Cover Sheet,
- Project Plan,
- Elevations and Sections
- Structural Drawings for Pole foundations
- Necessary Detail Drawings.
- Necessary pictures for reference and related notes,

All materials shall be new and free of defects and in good condition. The final product, materials, and construction must meet the minimum standards as described in the contract documents and technical specification. The DT GLOBAL SINAAN may call for the contractor to provide and supply samples of all materials and equipment proposed for this work in order to review and approve them on site.

The contractor shall obtain DT GLOBAL SINAAN written verification for all submittals before installation.

Material product sheets for all materials shall be delivered to DT GLOBAL SINAAN.

The Subcontractor shall also maintain a record of all these material and equipment specification sheets.

K. Period of Performance

- The Subcontractor shall complete this assignment within a period as per the Project Schedule Timeline from the time of issuance of Notice to Proceed and shall expeditiously work to complete the project to the standards and quality that the contract stipulates.

- The subcontractor shall prepare detailed work plans (Schedule) for each item for submission to DT GLOBAL SINAAN during the pre-construction meetings.

L. Coordination

The CC shall attend a “Pre-construction Conference with DT GLOBAL SINAAN to discuss the Start Date, Schedules for Submittals, Quality Control Plan, HSSP and Site Security, EMMP and overall project implementation plan and schedule.

During construction, the CC shall have in his possession on site a copy of the SOW, the Drawings, Technical Specifications, the HSSP, the EMMP and Environmental Monitoring Checklists, and other documents which will be required by DT GLOBAL SINAAN.

M. Applicable Codes and Standards

M.1. Solar Photovoltaic (PV) Modules

- **IEC 61215** – Terrestrial photovoltaic (PV) modules – Design qualification and type approval
- **IEC 61730-1 & IEC 61730-2** – PV module safety qualification (construction and testing)
- **IEC 61701** – Salt mist corrosion testing of photovoltaic modules (where applicable)
- **IEC 62804** – PV modules – Potential induced degradation (PID) resistance
- **ISO 9001** – Quality management systems (manufacturer certification)

M.2. Batteries (LiFePO₄ / Lithium-Ion)

- **IEC 62619** – Safety requirements for secondary lithium cells and batteries for industrial applications
- **IEC 62133-2** – Safety requirements for portable sealed secondary lithium cells and batteries
- **UN 38.3** – Transport of lithium batteries (testing and certification)
- **IEC 62933 (Series)** – Electrical energy storage (EES) systems – Safety and performance
- **ISO 9001 / ISO 14001** – Manufacturer quality and environmental management systems

M.3. LED Luminaires (Outdoor Street Lighting)

- **IEC 60598-1** – Luminaires – General requirements and tests
- **IEC 60598-2-3** – Luminaires for road and street lighting
- **IEC 62722-2-1** – Luminaire performance for LED luminaires
- **IEC 62471** – Photo biological safety of lamps and lamp systems
- **IEC 62031** – LED modules for general lighting – Safety specifications
- **IEC 60529** – Degrees of protection (IP Code)

M.4. Solar Charge Controller

- **IEC 62509** – Performance of battery charge controllers for photovoltaic systems
- **IEC 62109-1 & IEC 62109-2** – Safety of power converters for use in photovoltaic systems
- **IEC 61000 (Series)** – Electromagnetic compatibility (EMC) requirements

M.5. Poles, Mechanical Structures, and Foundations

- **EN 40 (Series)** – Lighting columns (design, manufacturing, and testing)
- **ISO 1461** – Hot-dip galvanized coatings on fabricated iron and steel articles
- **ISO 12944** – Corrosion protection of steel structures by protective paint systems
- **IEC 61936-1** – Power installations exceeding 1 kV AC (general safety principles – where applicable)
- **ASCE 7** or equivalent – Minimum design loads for buildings and structures (wind load design)

M.6. Electrical Installation and Cabling

- **IEC 60364 (Series)** – Low-voltage electrical installations
- **IEC 60228** – Conductors of insulated cables

- **IEC 60502** – Power cables with extruded insulation
- **IEC 60947** – Low-voltage switchgear and control gear
- **IEC 61643** – Surge protective devices (SPDs)

M.7. Environmental and Ingress Protection

- **IEC 60529** – IP ratings (minimum IP66 for luminaires and outdoor enclosures)
- **IEC 60068 (Series)** – Environmental testing (heat, humidity, vibration, dust)

M.8. Occupational Health, Safety, and Installation Practices

- **ISO 45001** – Occupational health and safety management systems
- **IEC 50110-1** – Operation of electrical installations
- **ILO Safety Standards** – Electrical and construction site safety

M.9. Testing, Inspection, and Acceptance

- **IEC 62446** – Grid-connected PV systems – Documentation, commissioning, and inspection (applicable principles for PV installations)
- **ISO/IEC 17025** – General requirements for competence of testing and calibration laboratories

M.10. Equivalency Clause

Equipment and materials complying with equivalent international, regional, or nationally recognized standards shall be acceptable, subject to approval by the Engineer.

N. BILL OF QUANTITY (BOQ)

Attached as Excel File

O. PERFORMANCE REQUIREMENTS, O&M DURING DEFECT AND LIABILITY PERIOD

O.1. General O&M Obligations

The Contractor shall be responsible for full Operation and Maintenance (O&M) of the Stand-Alone Integrated Solar Streetlight System during the period of **06 Month**; ensuring continuous, safe, and reliable operation in accordance with Good Industry Practice, manufacturer recommendations, and applicable standards. O&M activities shall include routine inspection, preventive maintenance, corrective maintenance, fault rectification, component replacement, and system performance monitoring.

O.2. System Availability and Service Levels

- Minimum **system availability**: **≥ 98%** of installed streetlights operational at any time.
- A streetlight shall be deemed unavailable if it fails to operate automatically from dusk to dawn.
- Availability shall be assessed monthly.

O.3. Lighting Performance Requirements

- Each streetlight shall provide illumination for a minimum of 10–12 hours per night, depending on system design.
- Luminaires shall operate automatically via dusk-to-dawn control.
- Light output degradation shall not exceed manufacturer limits during the O&M period.
- Uniform lighting distribution shall be maintained and flickering or intermittent operation shall not be permitted.

O.4. Battery Performance and Energy Storage

Batteries (Li-ion / LFP / Gel, as applicable) shall:

- Maintain adequate State of Charge (SOC) to support nightly operation;
- Operate within manufacturer-specified voltage and temperature limits;
- Provide a minimum autonomy of 2–3 consecutive nights without solar input.

- Battery depth of discharge shall be controlled to prevent premature degradation.
- Any battery failing to meet performance requirements shall be replaced at the Contractor's cost.

O.5. Solar Module Performance

- PV modules shall be kept clean and free from shading, dust, and debris.
- Performance losses due to soiling shall be mitigated through scheduled cleaning.
- Broken, cracked, or non-functional modules shall be replaced within the specified response time.

O.6. Controller, LED Luminaire, and Pole Integrity

- Charge controllers and drivers shall ensure stable power supply and protection against over-charging, over-discharging, and short circuits.
- LED luminaires shall operate within rated current and temperature limits.
- Poles, brackets, foundations, and fasteners shall be inspected for corrosion, mechanical damage, and alignment.

O.7. Maintenance Response Times

Fault Category	Maximum Response Time
Critical (complete outage)	48 hours
Major (reduced lighting)	72 hours
Minor (non-critical issue)	7 days

Note: All faults shall be logged, tracked, and closed within the agreed timeframes.

O.8. Performance Monitoring and Reporting

- The Contractor shall maintain maintenance logs and fault records.
- O&M reports shall include:
 - Number of operational streetlights;
 - Faults and corrective actions taken;
 - Replaced components;
 - Preventive maintenance activities.

O.9. Penalties and Corrective Measures

- Failure to meet availability or performance requirements may result in:
 - Withholding of retention payments;
 - Requirement to replace defective components;
 - Application of contractual performance deductions, where applicable.

O10. Handover at End of Defect and Liability Period and Releasing Retention Money

At the end of the Defect and Liability period, the Contractor shall hand over the system in good working condition, with:

- 100% of streetlights fully operational;
- Updated maintenance records;
- Confirmation of remaining component warranties.
- The Retention Money released upon issuance of the Taking-Over Certificate (TOC)
- Expiry of the Defects and Liability of Six (06) months;

O.11. Short Tender Summary

- **Availability:** 100%
- **Lighting Duration:** 10–12 hours/night
- **Autonomy:** 2–3 nights
- **Response Time:** 48–72 hours
- **Retention Period:** 06 months from TOC
- **Retention Amount:** 10% of Contract Price
- **O&M Coverage:** Full O&M by Contractor during Defect and Liability
- **Release:** After Performance Certificate

ANNEX 2 - DESIGNS AND DRAWINGS

Burao, Somaliland

SOLAR STREET LIGHTS INSTALLATION



16 Jul 2026 10:26:17 am
Swiss grid E:5405627 N:-3040939
Altitude:1018.5m
Speed:0.0km/h



16 Jul 2026 10:26:27 am
Swiss grid E:5405615 N:-3040943
Altitude:1017.8m
Speed:2.8km/h



16 Jul 2026 10:12:21 am
Swiss grid E:5412311 N:-3042088
Altitude:999.7m
Speed:0.0km/h

NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
2. PV modules to face true south with optimized tilt angle;
3. Mounting structure to be high-strength anodized / galvanized aluminum, corrosion-resistant
4. All bolts, nuts, and fasteners to be stainless steel and securely tightened.
5. Concrete foundations to be properly aligned, cured, and raised above ground as per design
6. Steel Poles designed to withstand local wind loads (≥ 120 km/h or site-specific requirement).
7. Provide safe access for cleaning, inspection, and maintenance.
8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number	001	A100
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	Scale

BURAO SOLAR STREET LIGHTING ROAD COORDINATES				
No	ROAD NAME/NO.	LATITUDE (N)	LONGTIDE (E)	LENGTH (m)
1	Kaafi – Saylada Road			974.00
	Starting Point	9°32'2.53"N	45°32'24.17"E	
	End Point	9°32'30.79"N	45°32'17.25"E	
2	Silanyo Junction – Barkulan Road			1074.00
	Starting Point	9°32'1.65"N	45°32'24.73"E	
	End Point	9°31'55.04"N	9°31'55.04"N	
3	Silanyo RA–Municipality HQ Road			1275.00
	Starting Point	9°32'2.37"N	45°32'23.10"E	
	End Point	9°31'43.98"N	45°32'5.30"E	
4	Yemeni Hotel–Burao University Road			1350.00
	Starting Point	9°32'3.53"N	45°32'4.92"E	
	End Point	9°32'29.90"N	45°31'34.33"E	
5	Muni Admin Corridor Road (RA) Double Arm			1210.00
	Starting Point	9°31'47.37"N	45°32'13.44"E	
	End Point	9°31'12.08"N	45°32'21.34"E	
TOTAL LENGTHS OF THE ROAD (m)				5883.00

Road Name	Length (km)	Pole	LAMP
Kaafi – Saylada Road	0.974	32	32
Silanyo Junction – Barkulan Road	1.074	36	36
Silanyo RA–Municipality HQ Road	1.275	42	42
Yemeni Hotel–Burao University Road	1.35	45	45
Muni Admin Corridor Road (RA) Double Arm	1.21	40	80
TOTAL	5.883	195	235

- NOTES
- GENERAL
- Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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 - All bolts, nuts, and fasteners to be stainless steel and securely tightened.
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 - Steel Poles designed to withstand local wind loads (≥120 km/h or site-specific requirement). Provide safe access for cleaning, inspection, and maintenance.
 - Installation to be inspected, tested, and handed over in safe, fully operational condition.
 -

No.	Description	Date



DT Global



sinaan

SINAAN

Solar Street Lights for Burao

Project number 001

Date Aug 2026

Drawn by Author

Checked by Checker

A101

Scale



- NOTES**
- GENERAL**
1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
 2. PV modules to face true south with optimized tilt angle;
 3. Mounting structure to be high-strength anodized /galvanized aluminum, corrosion-resistant
 4. All bolts, nuts, and fasteners to be stainless steel and securely tightened.
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 8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

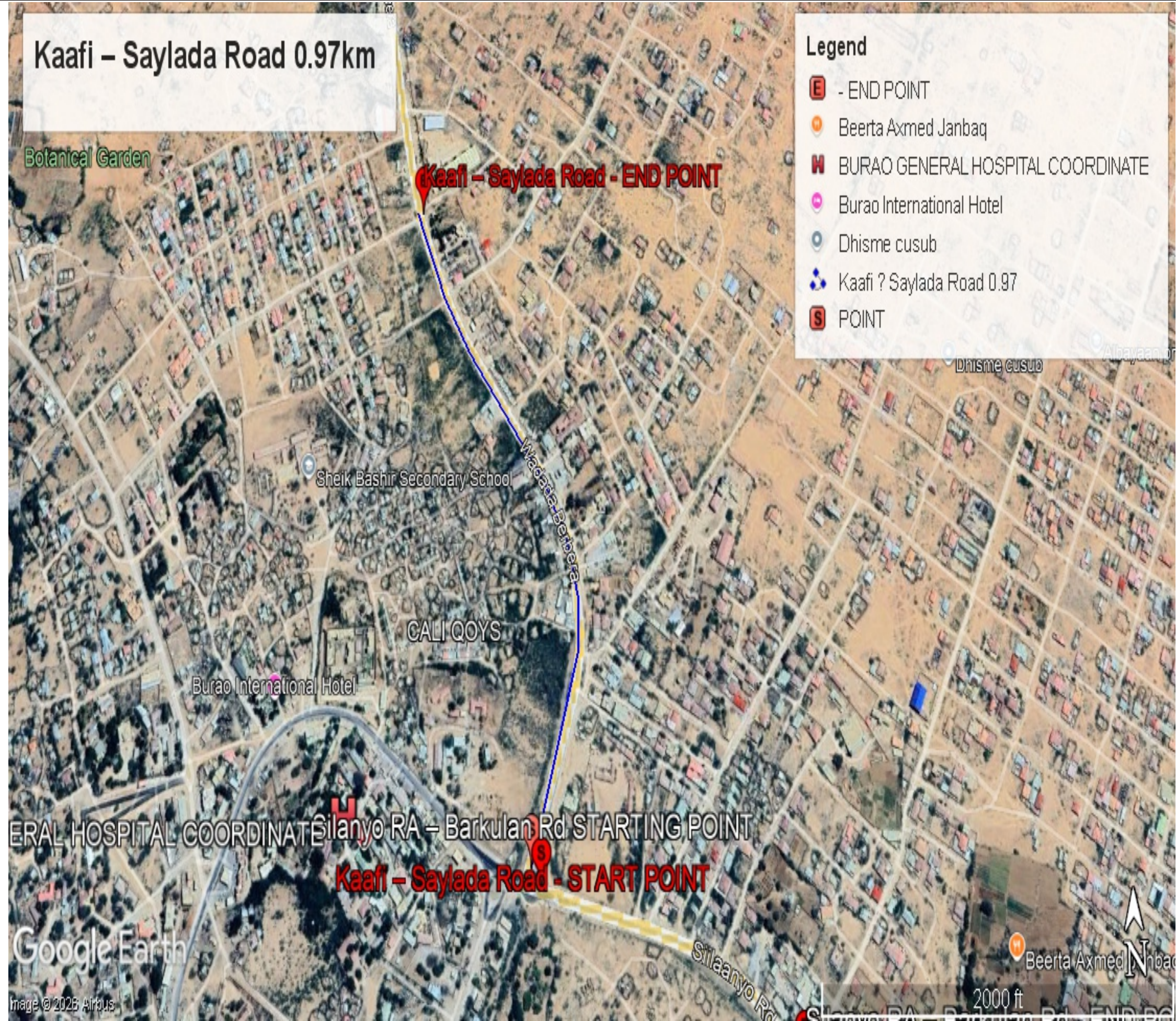
No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number	001	A102
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	
Scale		



NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
2. PV modules to face true south with optimized tilt angle;
3. Mounting structure to be high-strength anodized /galvanized aluminum, corrosion-resistant
4. All bolts, nuts, and fasteners to be stainless steel and securely tightened.
5. Concrete foundations to be properly aligned, cured, and raised above ground as per design
6. Steel Poles designed to withstand local wind loads (≥ 120 km/h or site-specific requirement).
7. Provide safe access for cleaning, inspection, and maintenance.
8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number	001	A103
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	Scale

Silanyo RA – Barkulan Rd

Legend

- Silanyo RA ? Barkulan Rd - END POINT
- Silanyo RA ? Barkulan Rd STARTING POINT

NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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7. Provide safe access for cleaning, inspection, and maintenance.
8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number 001

Date Aug 2026

Drawn by Author

Checked by Checker

A104

Scale

JARMALKA

Burco

Masjidka Alhuda

Google Earth

made © 2026 Airbus

3000 ft





NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
2. PV modules to face true south with optimized tilt angle;
3. Mounting structure to be high-strength anodized /galvanized aluminum, corrosion-resistant
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7. Provide safe access for cleaning, inspection, and maintenance.
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No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number	001	A105
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	Scale



NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
2. PV modules to face true south with optimized tilt angle;
3. Mounting structure to be high-strength anodized /galvanized aluminum, corrosion-resistant
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7. Provide safe access for cleaning, inspection, and maintenance.
8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

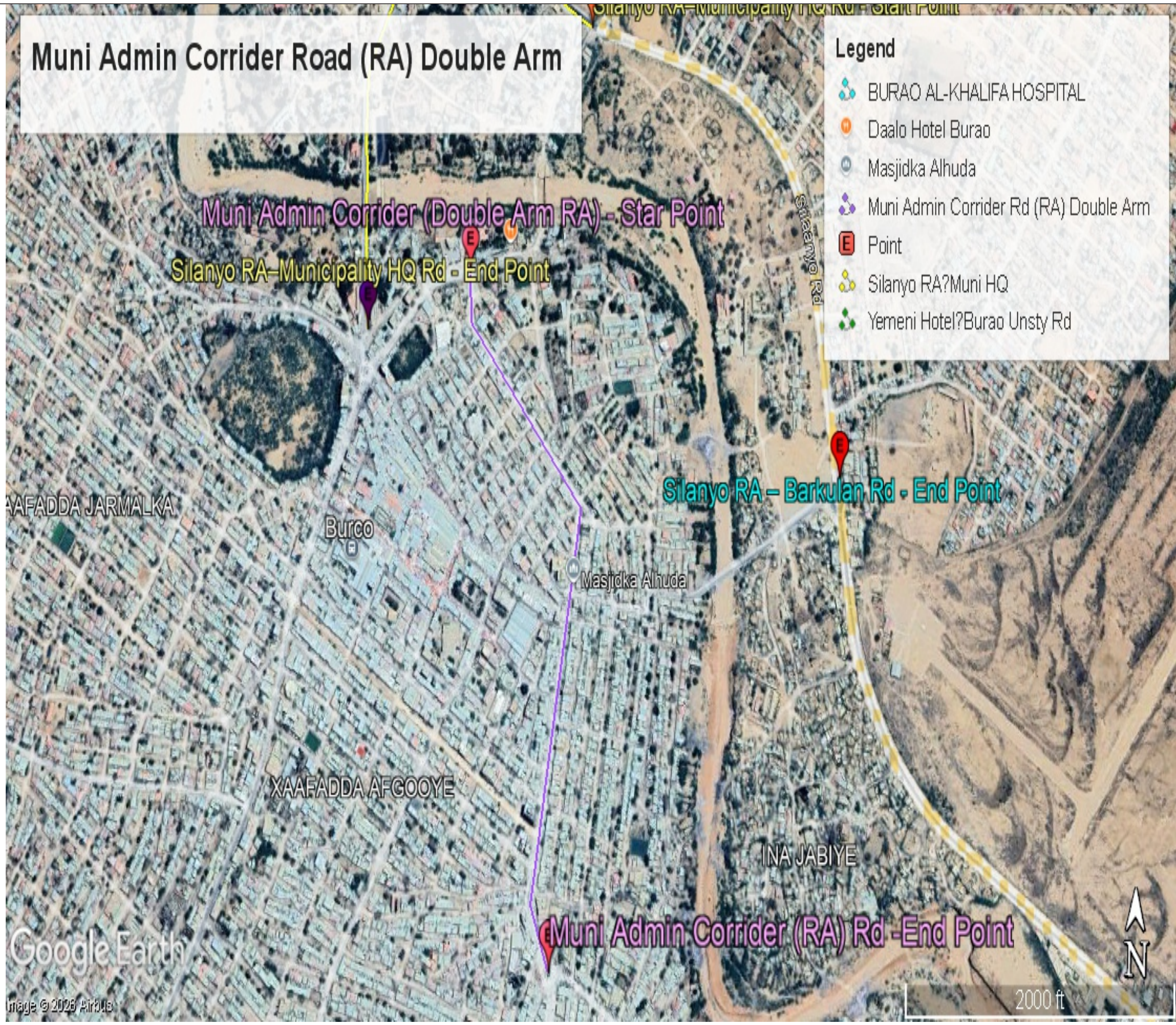
No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number	001	A107
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	Scale

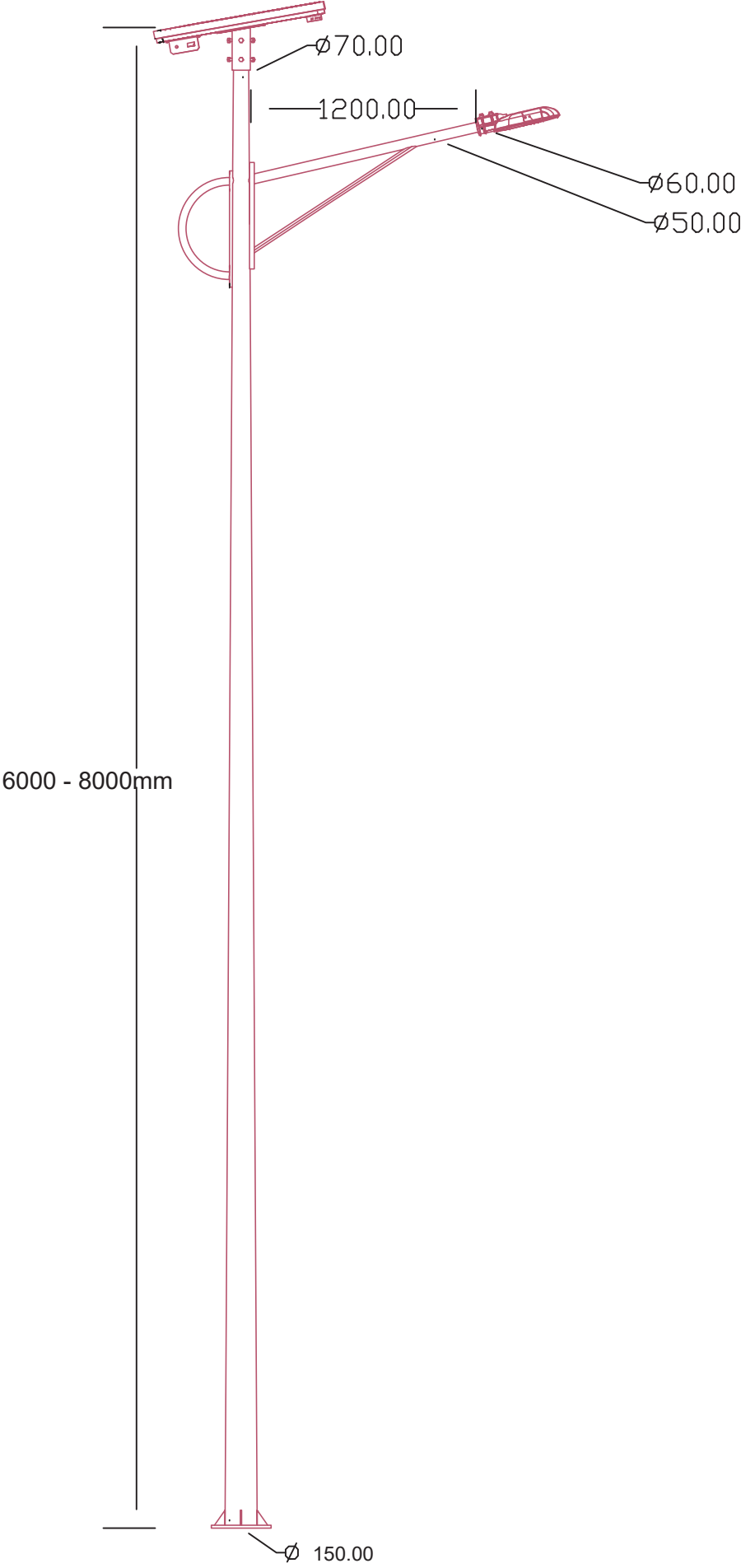


- NOTES**
- GENERAL**
1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
 2. PV modules to face true south with optimized tilt angle;
 3. Mounting structure to be high-strength anodized /galvanized aluminum, corrosion-resistant
 4. All bolts, nuts, and fasteners to be stainless steel and securely tightened.
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 7. Provide safe access for cleaning, inspection, and maintenance.
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No.	Description	Date



SINAAN		
Solar Street Lights for Burao		
Project number	001	A108
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	
Scale		



NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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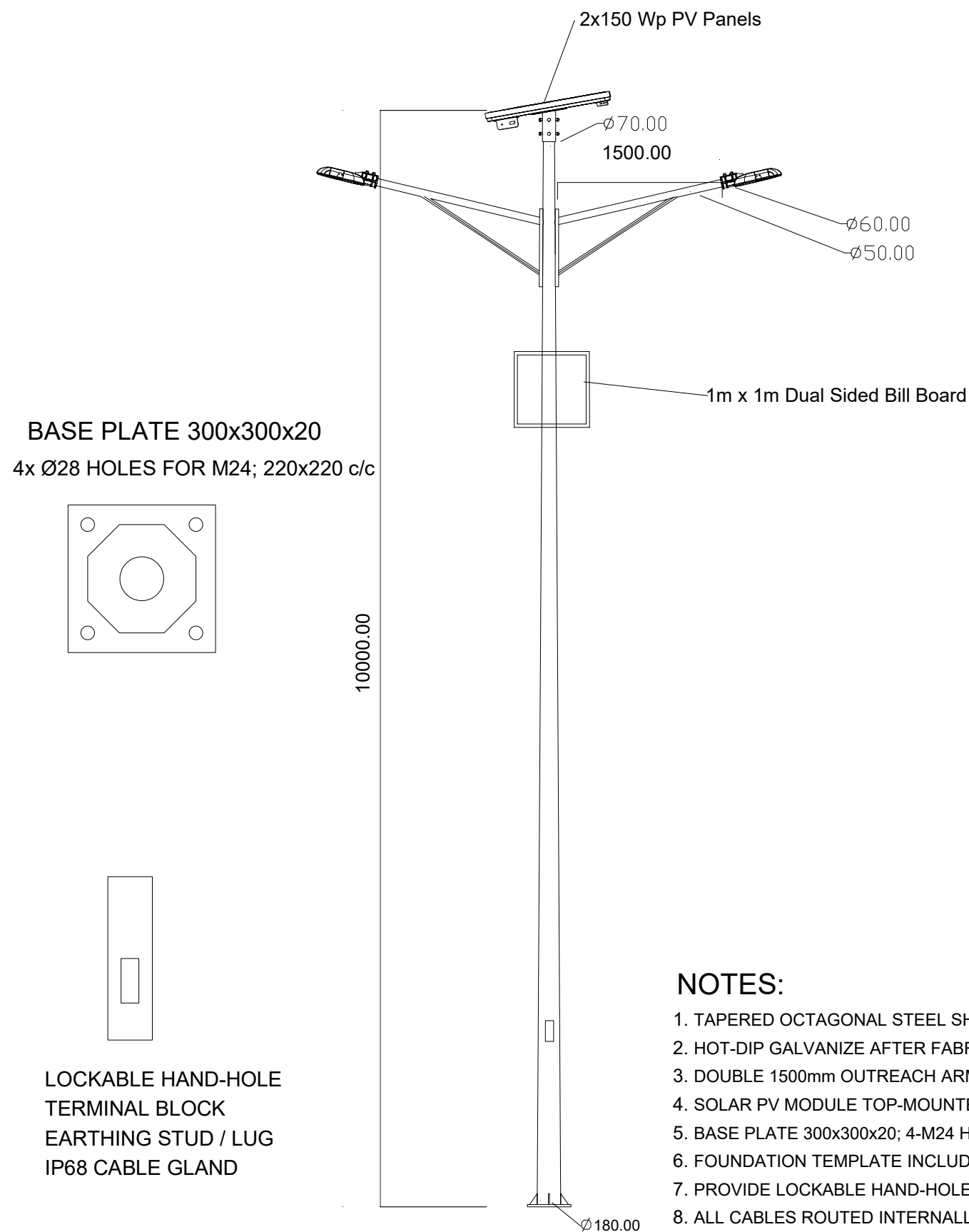
No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number	001	A109
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	Scale



NOTES:

1. TAPERED OCTAGONAL STEEL SHAFT, 10m HIGH, MIN 3mm WALL.
2. HOT-DIP GALVANIZE AFTER FABRICATION TO ISO 1461.
3. DOUBLE 1500mm OUTREACH ARMS WITH DIAGONAL BRACING.
4. SOLAR PV MODULE TOP-MOUNTED BETWEEN ARMS; 1800x1100 INDICATIVE.
5. BASE PLATE 300x300x20; 4-M24 HDG ANCHOR BOLTS; 220x220 c/c.
6. FOUNDATION TEMPLATE INCLUDED; CONCRETE FOUNDATION DESIGN EXCLUDED.
7. PROVIDE LOCKABLE HAND-HOLE, TERMINAL BLOCK, CABLE GLAND, EARTH CONNECTION.
8. ALL CABLES ROUTED INTERNALLY.

NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

No.	Description	Date

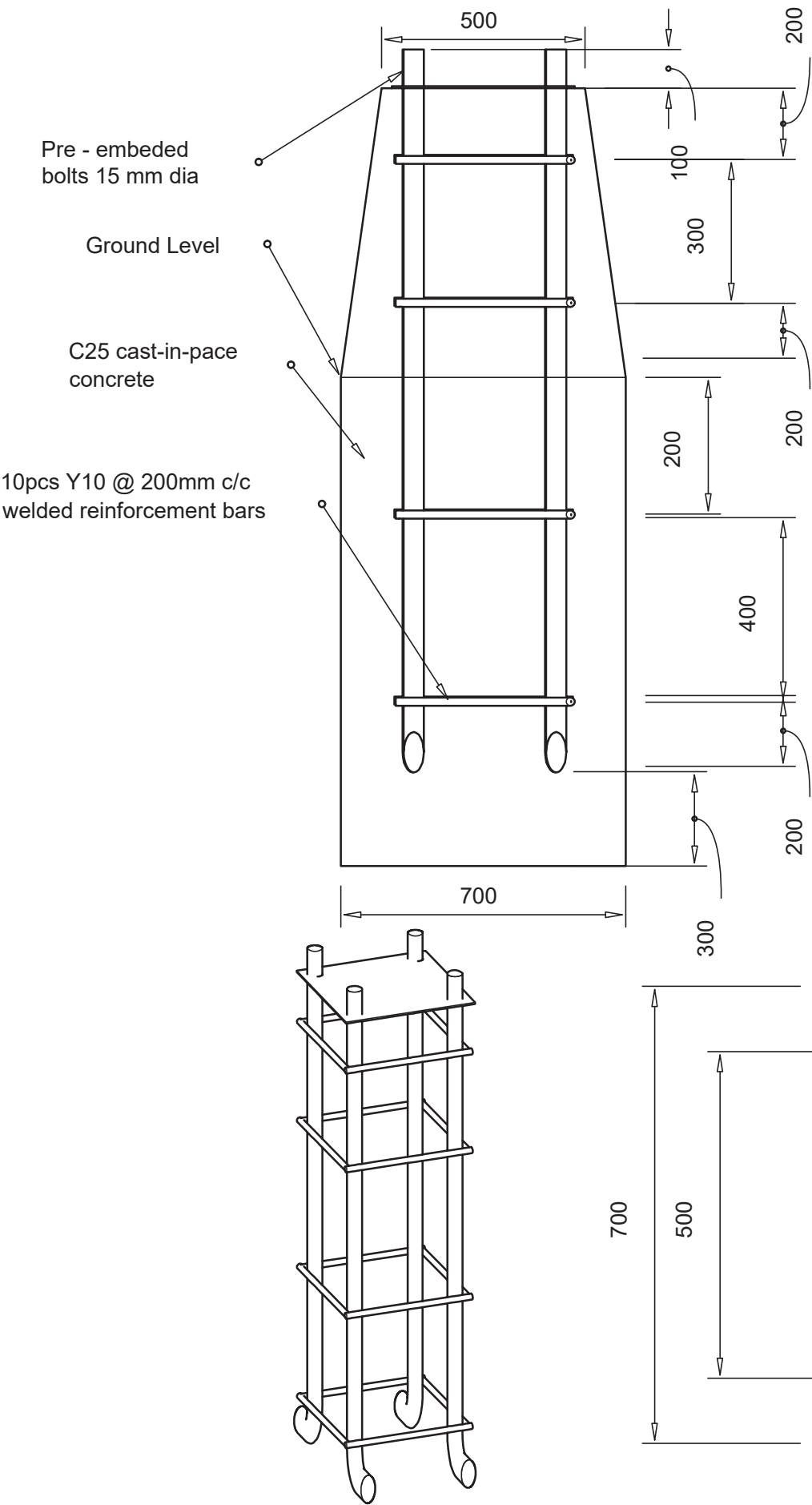


SINAAN

Solar Street Lights for Burao

Project number	A110
Date Aug 2026	
Drawn by Author	
Checked by Checker	
Scale	

Drawing for SSL Concrete Foundation



GENERAL NOTE:
All units are in mm.
Drawing is NOT TO SCALE.
Please consult the Engineer where if anything is unclear.

NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number 001

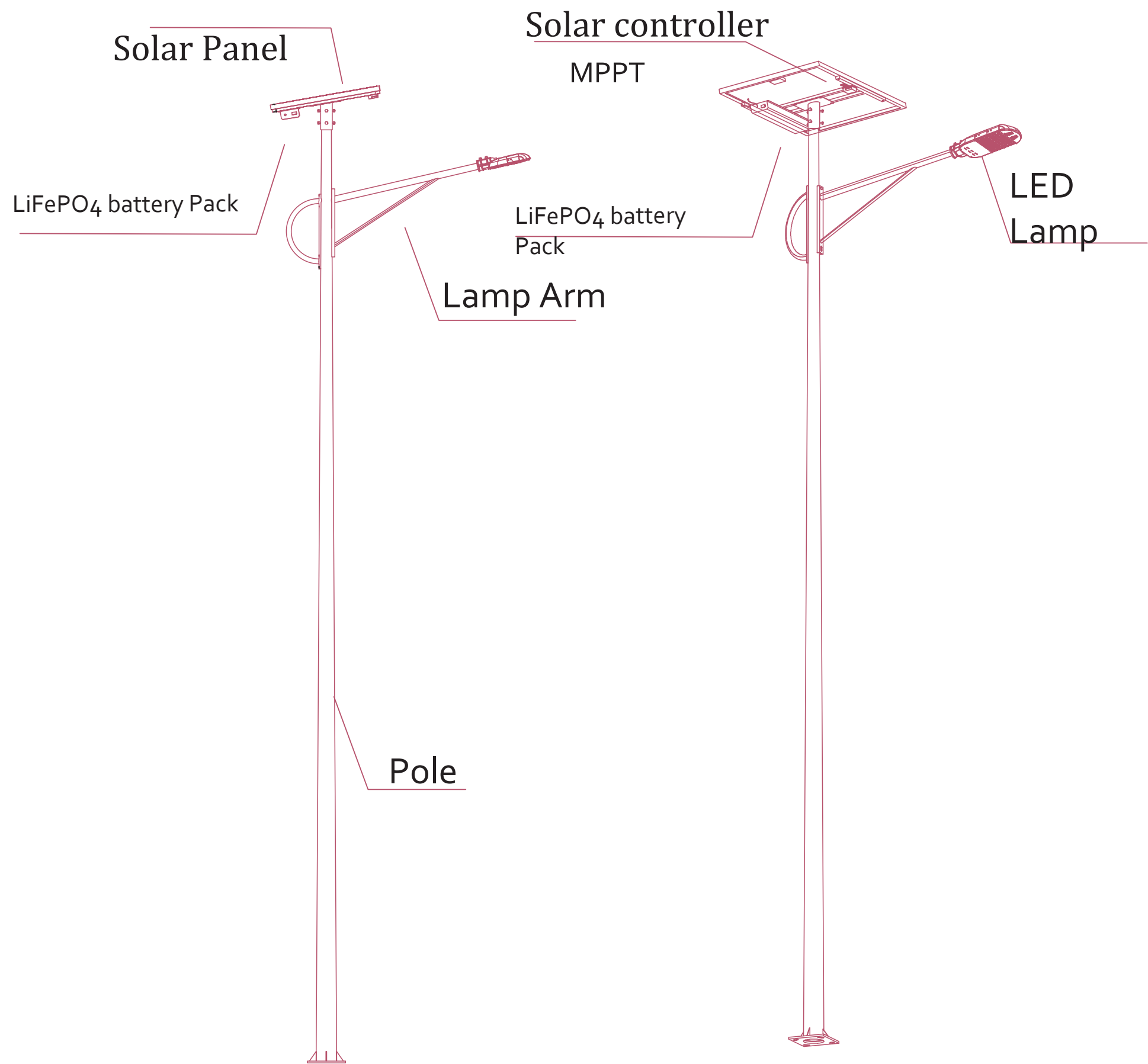
Date Aug 2026

Drawn by Author

Checked by Checker

A111
Scale

Solar Street Light Installation steps



NOTES

GENERAL

- 1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
- 2. PV modules to face true south with optimized tilt angle;
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- 8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

No.	Description	Date



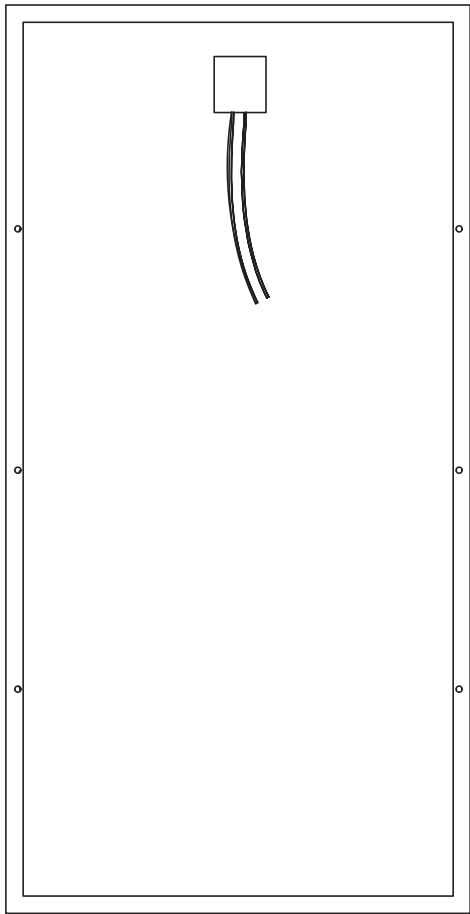
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Solar Street Lights for Burao

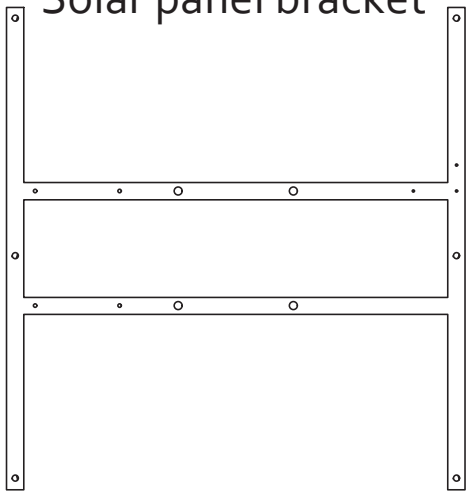
Project number	001	A112
Date	Aug 2026	
Drawn by	Author	
Checked by	Checker	Scale

Parts list

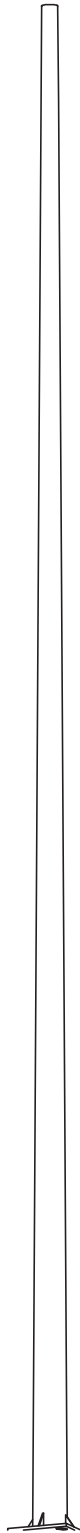
Solar panel



Solar panel bracket



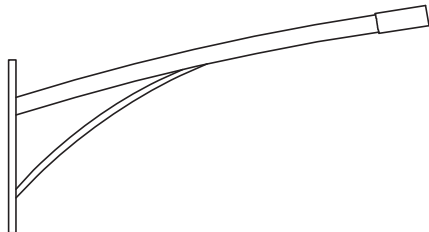
Pole



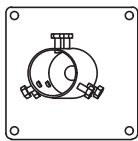
Decorative arm



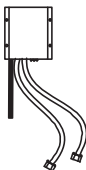
Lamp Arm



Sleeve



Solar controller



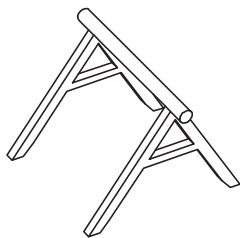
SLD12-100W



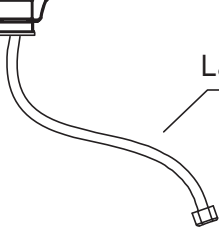
LiFePO₄ battery Pack



Wooden frame



Lamp cable



NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
2. PV modules to face true south with optimized tilt angle;
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8. Installation to be inspected, tested, and handed over in safe, fully operational condition.

No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number 001

Date Aug 2026

Drawn by Author

Checked by Checker

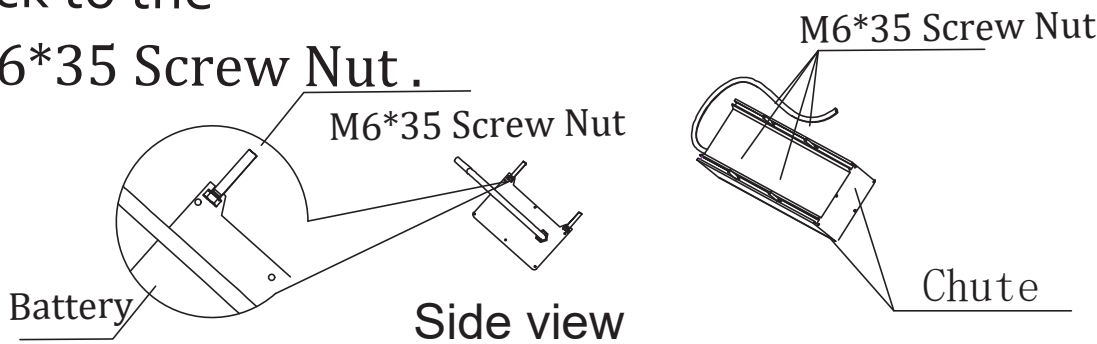
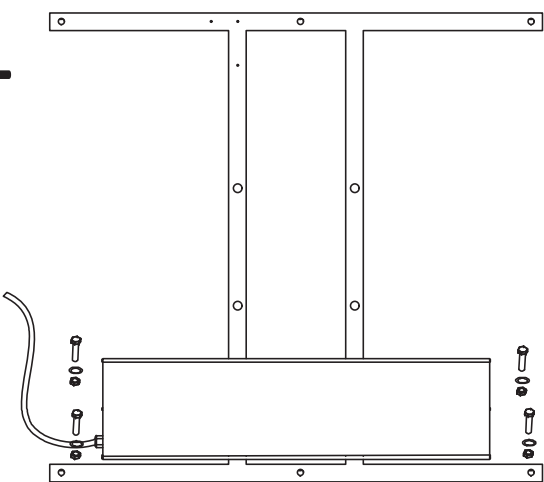
A113

Scale As indicated

Solar Panel Bracket Details

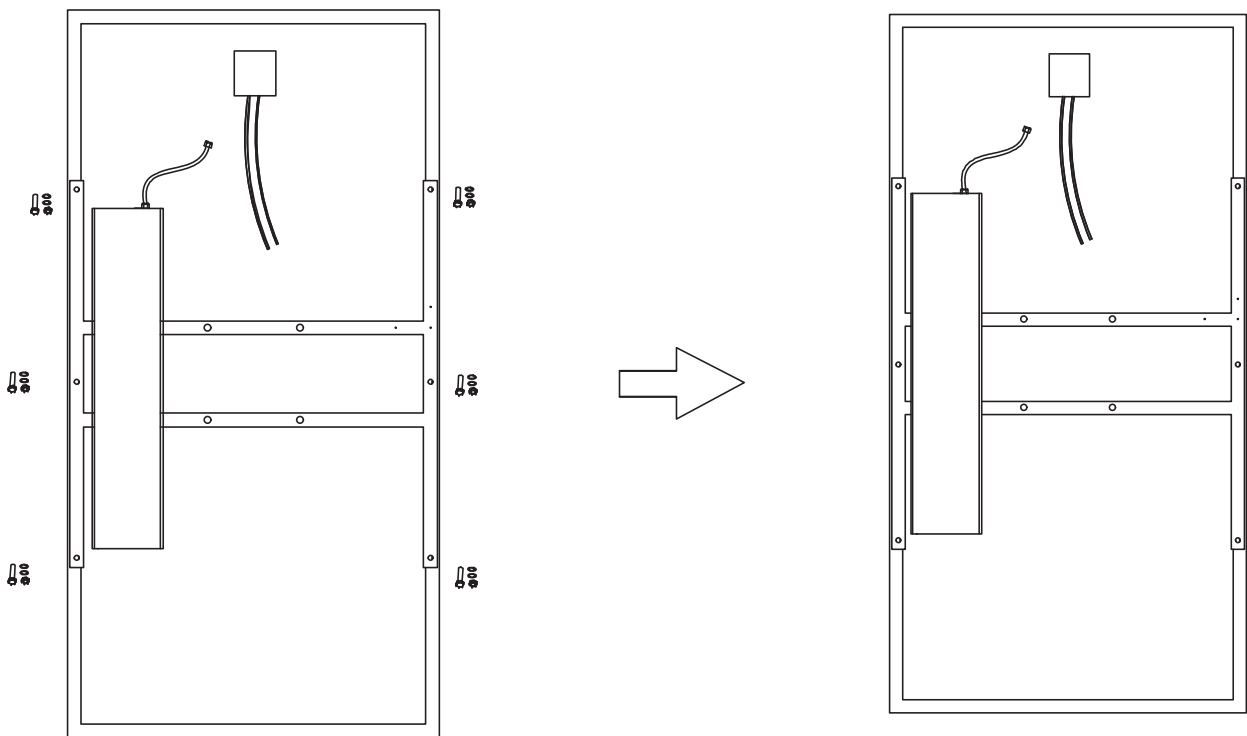
Fixed the LiFePO₄ battery Pack to the solar panel bracket with M6*35 Screw Nut.

Step 1



Step 2

Fixed Solar Panel Bracket and Solar Panel with M6*35 Screw Nut



NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number 001

Date Aug 2026

Drawn by Author

Checked by Checker

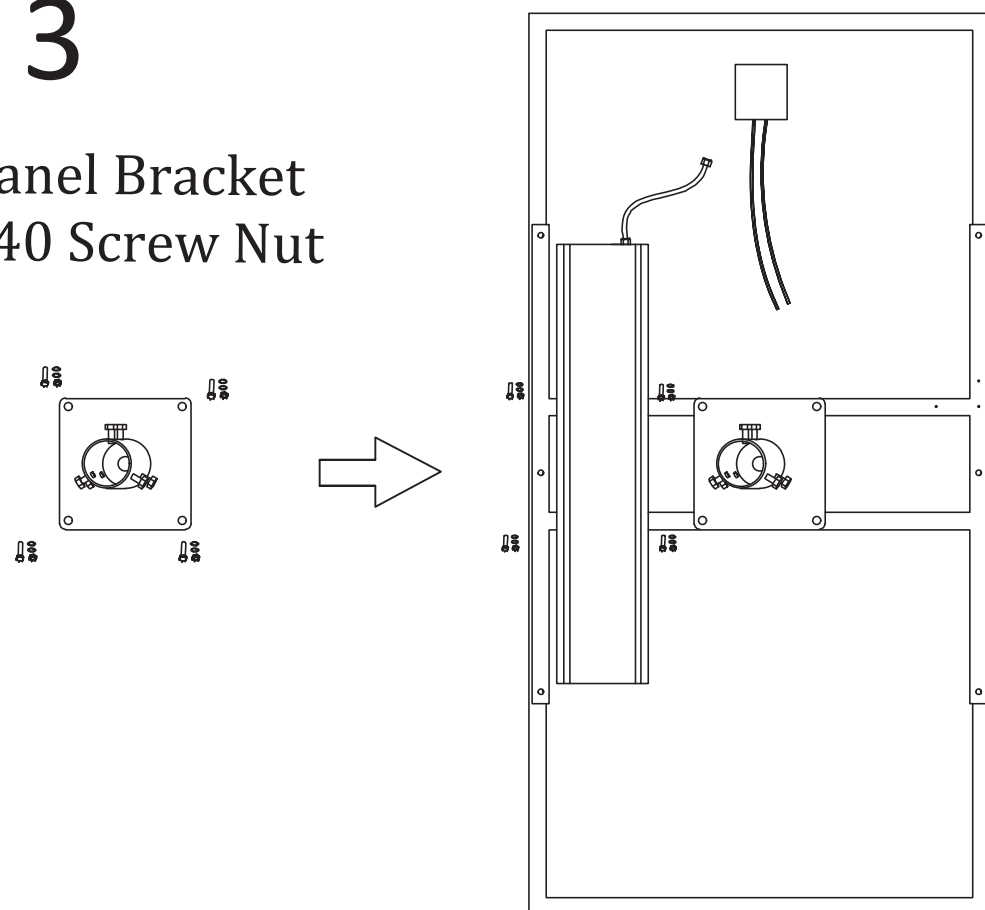
A114

Scale As indicated

Solar Panel Bracket Details

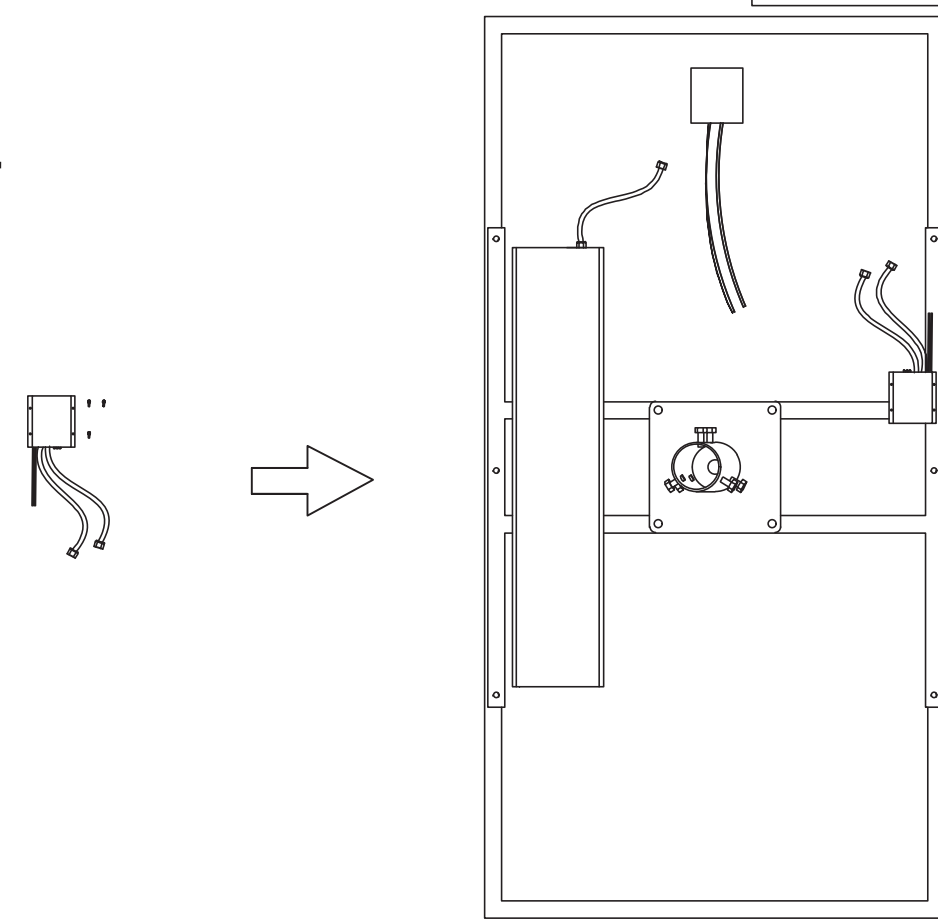
Step 3

Fixed Sleeve and Solar Panel Bracket
with M12*40 Screw Nut



Step 4

Fixed Solar controller and Solar
Panel Bracket with M4 Screw .



NOTES

GENERAL

- 1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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No.	Description	Date



SINAAN

Solar Street Lights for Burao

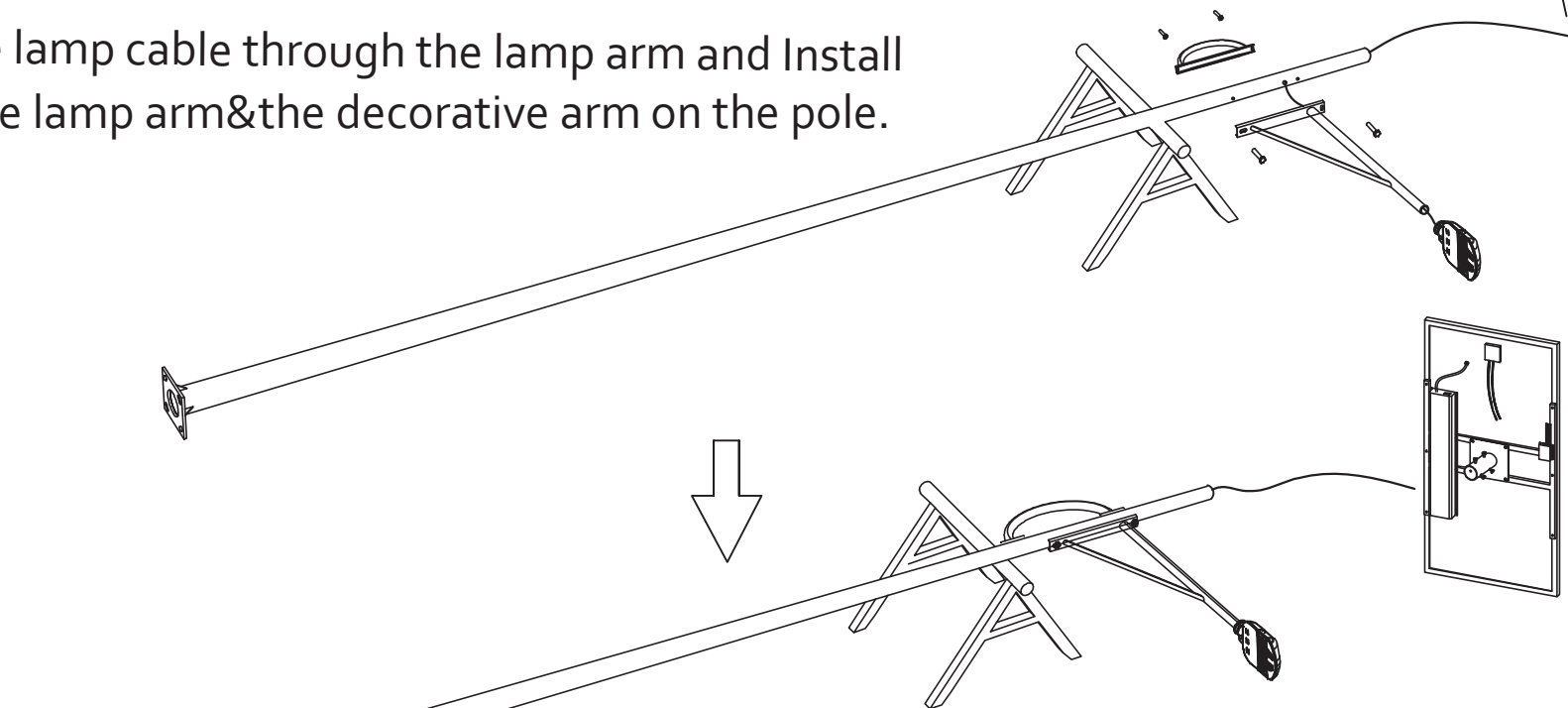
Project number	001	A115	
Date	Aug 2026		
Drawn by	Author		
Checked by	Checker	Scale	As indicated

Solar Panel Bracket Details

Step 5

Put the lamp cable through the lamp arm and Install the lamp arm&the decorative arm on the pole.

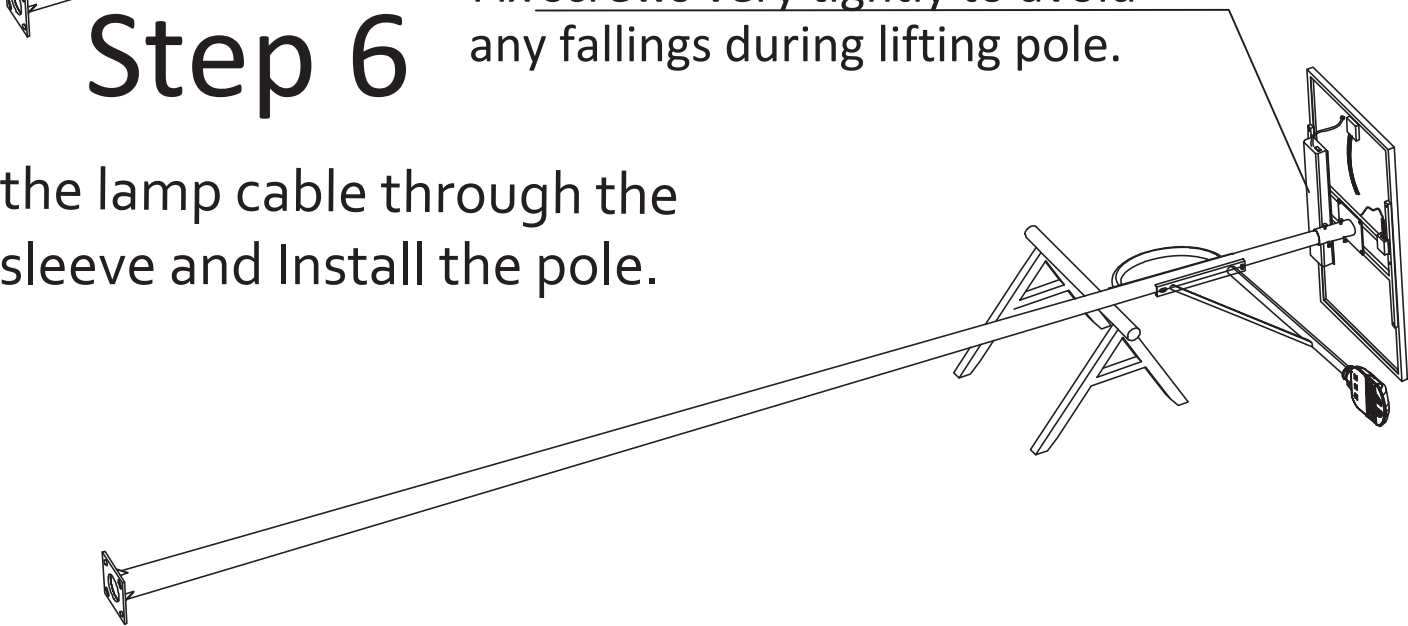
Lamp Cable
Waterproof connector



Step 6

Fix screws very tightly to avoid any fallings during lifting pole.

Put the lamp cable through the sleeve and Install the pole.



Conduct wiring according to the wiring diagram from the manufacturer.

NOTES

GENERAL

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2. PV modules to face true south with optimized tilt angle;
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No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number 001

Date Aug 2026

Drawn by Author

Checked by Checker

A116

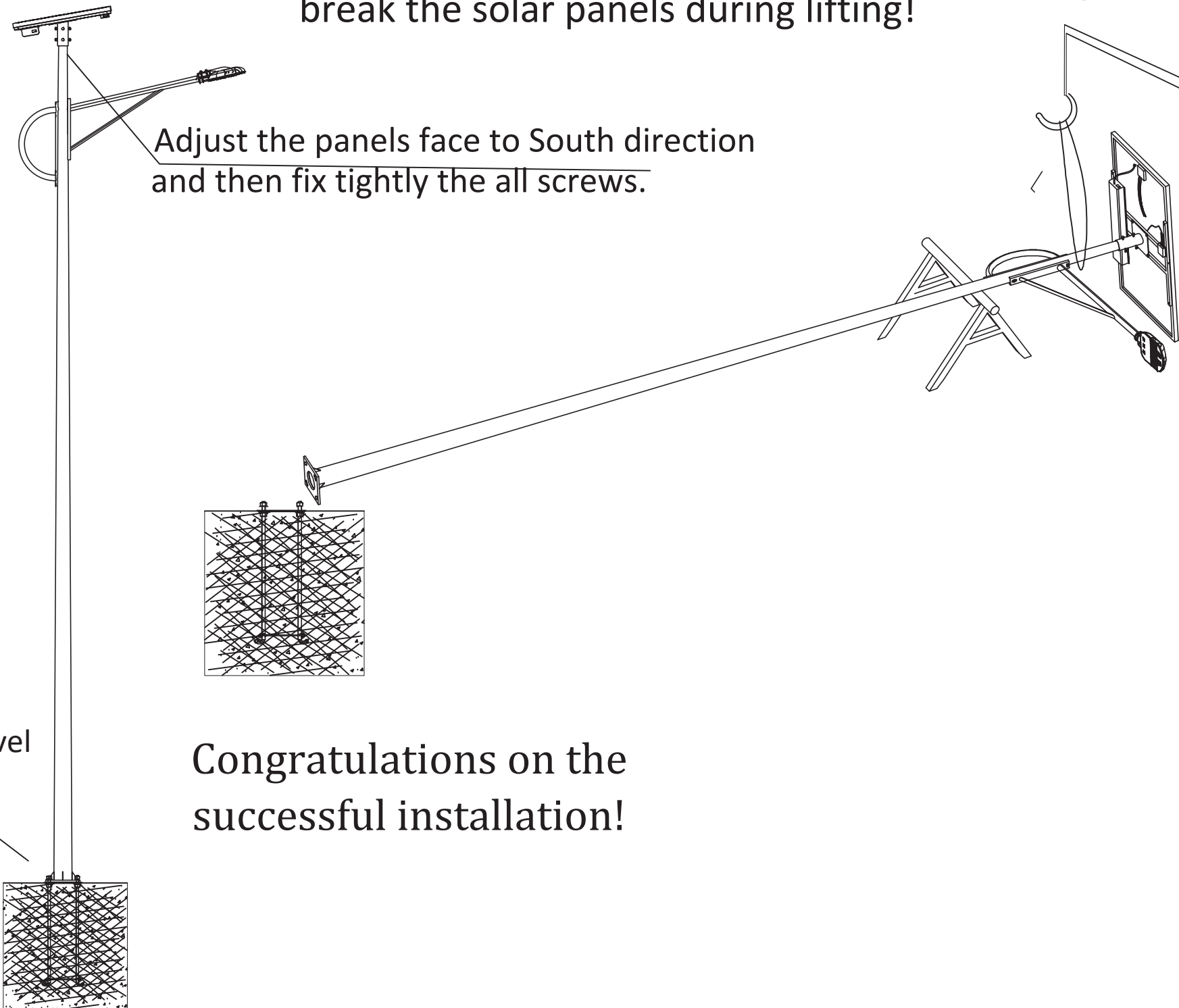
Scale As indicated

Crane installation Step 7

Attention: Avoid lifting arm touch and break the solar panels during lifting!

Lifting arm

Adjust the panels face to South direction and then fix tightly the all screws.



Step 8

Adjust the horizontal level and fix screws tightly.

Congratulations on the successful installation!

NOTES

GENERAL

1. Install solar street Lights in accordance with IEC/NEC standards and approved drawings.
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No.	Description	Date



SINAAN

Solar Street Lights for Burao

Project number 001

Date Aug 2026

Drawn by Author

Checked by Checker

A117

Scale As indicated

ANNEX 3 - QUALITY ASSURANCE PLAN

Submit a Detailed Proposed Quality Assurance Plan. Below is a guide.

QUALITY ASSURANCE/QUALITY CONTROL PLAN FOR PURCHASE SUPPLY AND INSTALLATION OF SOLAR STREET LIGHTS

Contents

1. Introduction-----	3
2. Objectives-----	3
3. Applicable Standards and Codes-----	3
4. Roles and Responsibilities-----	5
5. QA/QC Control Stages -----	5
6. Design and Submittal QA-----	7
7. Material Inspection and Control -----	8
8. Installation QA/QC Requirements-----	8
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13. Training and Competency-----	10
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QUALITY ASSURANCE/QUALITY CONTROL PLAN FOR PHOTOVOLTAIC (PV) SYSTEM INSTALLATION

1. Introduction

This Quality Assurance / Quality Control (QA/QC) Plan defines the procedures, responsibilities, inspections, tests, documentation, and acceptance criteria to ensure that the Solar PV system is installed in full compliance with approved designs, technical specifications, applicable codes and standards, manufacturer requirements, and contractual obligations.

The plan applies to all phases of the project including procurement, delivery, installation, testing, commissioning, and handover.

2. Objectives

The objective of this Quality Assurance and Quality Control document is to:

- Ensure installation quality, safety, and long-term system reliability
- Prevent defects, rework, and performance losses
- Verify compliance with approved drawings, specifications, and codes
- Establish clear inspection, testing, and documentation requirements
- Provide traceability and accountability throughout the project lifecycle

3. Applicable Standards and Codes

The project shall comply with, but not be limited to, the following standards:

Ref. No.	Component / System	Minimum Technical Requirement	Applicable Standard
1	Overall System Design	Hybrid SPV + BESS system sized as per BoQ and facility load demand	IEC / IEEE
2	Solar PV Modules	Mono-crystalline, $\geq 20\%$ efficiency	IEC 61215 / IEC 61730
3	PV Module Warranty	$\geq 10-12$ years product, ≥ 25 years performance	Manufacturer
4	PV Connectors	MC4 or approved equivalent	IEC 62852
5	PV DC Cables	UV-resistant, PV-rated	IEC 62930
6	Battery Chemistry	LiFePO ₄ (Lithium Iron Phosphate)	IEC 62619
7	Battery Cycle Life	$\geq 6,000$ cycles @ $\geq 80\%$ DoD	IEC 61427
8	Battery Management System	Integrated BMS with protection & balancing	IEC 63056
9	Battery Enclosure	IP-rated, suitable for indoor/outdoor installation	IEC 60529

10	Output Voltage & Frequency	230 V / 400–415 V, 50 Hz	IEC 60038
11	Solar Charge Controller	MPPT, LiFePO ₄ compatible	IEC 62509
12	Mounting Structures	Hot-dip galvanized / aluminum	ISO 1461
13	Cable Management	UV-resistant conduits & labeling	IEC 60364
14	Pole Height	8 m HDG steel	As per Drawings
15	Installation Workmanship	Qualified & certified personnel	DT GLOBAL
16	Quality Control Plan (QCP)	Project-specific QCP submitted	DT GLOBAL
17	Health, Safety & Security Plan (HSSP)	HSSP submitted and approved	DT GLOBAL
18	Environmental Compliance	EMMP measures implemented	ISO 14001
26	Mandatory Spare Parts	Supplied as per BOQ	Contract
19	O&M Tools Kit	Supplied as per BOQ	Contract
20	O&M Manuals	Complete manuals provided	IEC 62446
21	Training	Operator & maintenance training provided	Contract
22	Testing & Commissioning	Full testing reports submitted	IEC 62446
23	Warranty & Support	Warranty certificates & service support	Contract

4. Roles and Responsibilities

4.1 Project Manager

The Project Manager will be responsible for:

- Overall responsibility for QA/QC implementation
- Ensure resources and trained personnel are available
- Approve corrective actions

4.2 Site Engineer / Supervisor

The Site Engineer will be responsible for

- Implement and monitor this QA/QC plan
- Prepare inspection and test plans (ITPs)
- Conduct inspections and witness tests
- Ensure installation follows approved drawings and method statements
- Maintain QA/QC records and reports
- Request inspections and tests at hold points
- Rectify non-conformances

4.3 Electrical Engineer

The Electrical Engineer will be responsible for

- Verify electrical design compliance
- Supervise DC and AC installation works
- Review test results and commissioning data

4.4 Installer / Technician

The Installer / Technician will be responsible for

- Perform installation as per approved procedures
- Use calibrated tools and approved materials
- Report defects or deviations immediately

5. QA/QC Control Stages

Quality control for the PV system shall be implemented through structured control stages. Each stage includes defined activities, inspection points, responsibilities, and acceptance criteria to ensure defects are prevented rather than corrected at later stages.

The main QA/QC control stages are:

1. Design and Submittal Review
2. Material Procurement and Delivery Inspection
3. Installation Quality Control
4. Testing and Commissioning
5. Final Inspection and Handover

5.1 Design and Submittal Review

The Design and Submittal Review stage ensures that the proposed PV system design is technically sound, code-compliant, and suitable for site conditions before procurement and construction begin.

Key activities include:

- Review of PV layout drawings, single-line diagrams, string sizing, and inverter configuration
- Verification of compliance with applicable IEC/IEEE standards, utility grid codes, and local regulations
- Confirmation that selected equipment (modules, inverters, protection devices) is compatible and appropriately rated
- Review of earthing, lightning protection, and protection coordination schemes
- Approval of datasheets, method statements, and installation procedures

No procurement or installation work shall commence until all design documents and technical submittals are reviewed, commented on, and formally approved.

5.2 Material Procurement and Delivery Inspection

This stage ensures that all equipment and materials supplied to the project meet the approved technical specifications and quality requirements.

Key activities include:

- Verification that procurement is based strictly on approved submittals and manufacturer datasheets
- Inspection of materials upon delivery for quantity, model, rating, certification, and physical condition
- Checking serial numbers of PV modules and inverters for traceability and warranty purposes
- Ensuring materials are accompanied by test certificates, conformity certificates, and warranties
- Proper storage and handling of materials to prevent damage, deterioration, or loss

Any damaged, non-compliant, or unapproved materials shall be rejected, quarantined, and reported through a Material Inspection Report (MIR).

5.3 Installation Quality Control

Installation Quality Control focuses on ensuring that all mechanical and electrical works are executed in accordance with approved drawings, method statements, manufacturer instructions, and safety standards.

Key activities include:

- Continuous site supervision by qualified engineers and supervisors
- Inspection of mounting structures, alignment, anchoring, and module installation
- Verification of DC string configuration, cable routing, labeling, and connector installation
- Inspection of inverter installation, AC cabling, protection devices, and grid interface
- Verification of earthing and bonding of all metallic and electrical components

Hold points and witness points shall be defined, and no subsequent activity shall proceed without QA/QC approval of completed works.

5.4 Testing and Commissioning

The Testing and Commissioning stage verifies that the installed PV system is electrically safe, performs as designed, and operates reliably under normal conditions.

Key activities include:

- Pre-commissioning inspections and electrical tests in accordance with IEC 62446
- DC-side tests including polarity, continuity, insulation resistance, and string voltage checks
- AC-side tests including protection device verification and inverter functional checks
- Inverter start-up, grid synchronization, and performance verification
- Verification of monitoring, data logging, and communication systems

All test results shall be recorded, reviewed, and approved prior to energization of the system.

5.5 Final Inspection and Handover

Final Inspection and Handover confirm that the PV system has been completed in accordance with contractual requirements and is ready for commercial operation.

Key activities include:

- Joint final inspection with the Client/Engineer to verify workmanship and system completeness
- Confirmation that all punch list items and non-conformances have been closed
- Submission and approval of as-built drawings, test reports, warranties, and O&M manuals

- Training of the Client's operation and maintenance personnel
- Formal handover and issuance of completion and acceptance certificates

Upon successful handover, the system shall enter the warranty and defects liability period.

6. Design and Submittal QA

6.1 Document Review

- Approved single-line diagrams (SLD)
- Layout drawings and string configuration
- Earthing and lightning protection drawings
- Cable sizing and protection calculations

6.2 Verification Criteria

- Compliance with codes and standards
- Compatibility of modules, inverters, and BOS
- Adequate safety margins and protection devices

7. Material Inspection and Control

7.1 Incoming Material Inspection

Item	Inspection Criteria	Acceptance	Record
PV Modules	Model, wattage, serial numbers, visual defects	As per datasheet	Material Inspection Request
Inverters	Rating, certifications, accessories	Approved submittal	Material Inspection Request
Mounting Structures	Material, coating, dimensions	Approved drawings	Material Inspection Request
DC/AC Cables	Type, size, insulation rating	IEC compliant	Material Inspection Request
Protection Devices	Ratings, make, model	Approved submittal	Material Inspection Request

7.2 Storage and Handling

- Modules stored upright, covered, and protected from impact
- Inverters stored in dry, ventilated areas
- Cables stored on drums, protected from sunlight and moisture

8. Installation QA/QC Requirements

8.1 Mechanical Installation

Activity	Inspection Point	Acceptance Criteria
Structure alignment	Level and orientation	$\pm 2^\circ$ tolerance
Anchoring	Bolt torque, embedment	As per manufacturer
Module mounting	Clamp position, torque	Manufacturer limits
Tilt & azimuth	As per approved layout	$\pm 2^\circ$ deviation

8.2 DC Electrical Works

Activity	Inspection Point	Acceptance Criteria
String configuration	Correct series/parallel	Approved SLD
Cable routing	Proper support & protection	IEC 62548
MC4 connectors	Crimp quality & locking	Manufacturer specs
Polarity	Correct polarity	Zero reverse polarity

8.3 AC Electrical Works

Activity	Inspection Point	Acceptance Criteria
Inverter installation	Clearance & ventilation	Manufacturer manual
AC cabling	Size, labeling, routing	Approved drawings
Protection devices	MCB/MCCB/RCBO ratings	Design compliant
Grid interface	Synchronization settings	Utility code

8.4 Earthing and Lightning Protection

- Earth resistance $\leq$ design requirement (typically ≤ 5 ohms)
- All metallic parts bonded
- Separate DC and AC earthing where required

9. Inspection and Test Plan (ITP)

9.1 Pre-Commissioning Tests

Test	Method	Acceptance Criteria
Visual inspection	IEC 62446 checklist	No defects

Continuity test	Multimeter	Continuity OK
Polarity test	Multimeter	Correct polarity
Insulation resistance	Megger (500–1000V)	$\geq 1 \text{ M}\Omega$
String voltage	Multimeter	$\pm 5\%$ design

9.2 Commissioning Tests

Test	Acceptance Criteria
Inverter start-up	No alarms
Grid synchronization	Stable operation
Power output	Within expected range
Monitoring system	Data visible & accurate

10. Non-Conformance Management

In case of Non-Conformance:

- Non-Conformance Reports (NCR) will be issued for deviations
- Root cause analysis will be conducted
- Corrective and preventive actions will be implemented
- Re-inspection and closure documented

11. Calibration and Tools Control

- All test instruments must have valid calibration certificates
- Calibration records maintained on site
- Damaged or expired tools removed from service

12. Documentation and Records

Comprehensive and accurate documentation is essential to demonstrate compliance with QA/QC requirements and to support operation, maintenance, and warranty claims throughout the system life.

The following QA/QC records shall be maintained, controlled, and submitted as part of the project QA/QC dossier:

- Approved design drawings, specifications, and revisions
- Approved technical submittals and datasheets for all equipment
- Material Inspection Reports (MIR) and delivery notes
- Site inspection checklists for mechanical, DC, AC, and earthing works
- Inspection and Test Plans (ITPs) and completed test records
- Pre-commissioning and commissioning test reports
- Calibration certificates for testing instruments

- Non-Conformance Reports (NCR), corrective and preventive action records
- As-built drawings reflecting actual installation
- Operation & Maintenance (O&M) manuals
- Equipment warranties, guarantees, and certificates of conformity
- Training records and handover certificates

All documents shall be properly indexed, version-controlled, and retained for the duration of the warranty and defects liability period, or as required by contract and regulatory authorities.

13. Training and Competency

- Installers trained by certified PV professionals
- Electrical works carried out by licensed electricians
- Toolbox talks conducted regularly

14. Final Inspection and Handover

- Completion of all inspections and tests
- Submission of QA/QC dossier
- Client/Engineer final walkthrough
- Issuance of completion certificate

ANNEX 4 - ENVIRONMENTAL MITIGATION REQUIREMENTS

S/No	Project Stage and Activity	Potential for Negative Impacts	Mitigation Action for the Negative Impacts
1.	Implementation		
1.1	Demolition of existing failed structures, and carting away surplus materials	Avoid adjacent building, and damaging or destroying sensitive terrestrial ecosystems in the course of site	Develop plan to reduce and minimize impacts of falling objects and native flora during construction from damaging inhabitants, ecosystems and labours. Remove large objects without destroying. Cart away surplus debris and other hazardous materials to recommended proper dump sites.
1.2	Site clearing and/or levelling, and construction stake out	Disturbing natural flow of accumulation of watershed of the land topography and property line	Minimize disturbance of native flora during construction. Remove, without destroying, large
1.3	Drainage	Cause erosion, siltation, changes in natural water flow, and/or damage to aquatic ecosystems when excavated soil is piled inappropriately. Expose inhabitants and crew to risk of falls and injuries in excavation pits.	• Install drainage structure during construction • Putting operation and maintenance programme into effect to prevent and mitigate environmental impacts • Factor climate change scenario • Clearly define the type of the drainage purposing, ditches or self-drainage to control surface water drainage system • Extend run out drains for enough to allow water to dissipate evenly into ground. • Add Gutters to roofs. • Clean and Extend volume of Septic tanks.

1.4	Cladding of the structures	Possibility of contamination of soil and ground water by Ferrous (III) Oxide when rain water falls and drains on rusted iron sheets	The design and specifications binding with BoQ will recommend the use of pre-painted iron sheets to avoid rust. The site supervisors will ensure that the iron sheets delivered for the works are pre-painted and the correct gauge. No Painting at all
2	Operation		
1.1	Dust	Pollution of surface or ground water due to dust	Water trucks for reducing dust during rehab of roads
1.2	Concrete Mixing	Hardening of extra concrete after every stage of concrete mixing.	Site supervisors should make sure to be cleaned and removed extra concretes after mixing and casting is completed.

ANNEX 5 - HEALTH, ENVIRONMENTAL, SAFETY & SECURITY PLAN (HESSP) GUIDE

Submit Detailed HESSP Plan. Below is a guide.

Health, Environmental, Safety & Security Plan (HESSP) Template

Table of Content

1. Introduction
2. Objective
3. Scope
4. Responsibilities
 - 4.1 Director of the Company
 - 4.2 Project Manager
 - 4.3 Safety and Health Professional
 - 4.4 Labors and workers
5. Submittal
6. Risks and Hazards
7. PERSONAL PROTECTIVE EQUIPMENT
 - 7.1 Safety Glasses
 - 7.2 Hard Hats
 - 7.3 Footwear:
 - 7.4 Clothing:
 - 7.5 Hand Protection:
 - 7.6 Hearing Protection
8. Training
9. Environmental Mitigation Measure
10. Security Program

Construction Environmental, Health, Safety & Security Plan

for

Project Name

Project Location: Insert Project Location

Project Number: Insert Project Number

Prepared By: XYZ Company

Submitted To: SINAAN

Submission Date:/...../20....

There is no work, or the job is important than human life and health. This Health, Environmental, Safety & Security Plan (HESSP) will guide the contractor to plan their employees safe working conditions and will not create any damage to the public health or the environment due to the construction activities. Safety must be an integral part of each job. Full participation, cooperation, and support are necessary to ensure the safety and health of all persons and property involved in the project. Good project managers are trying to prepare precise action plans for safety and QC to ensure that the job is done right in a safe surrounding and that no major accidents occur on project site.

XYZcompany policy about safety is to perform all tasks and construction activities, safely with full regard to the well-being of workers, visitors, public, and the environment. If a job represents potential safety or health threat, every effort will be made to plan a safe way to do the job. We believe that if there is no any way to do a job safely, then it shall not be done at all. The following pages describe the **XYZ** performance in regard to safety assurance during the implementation of **Insert Project # & Name**, projects that comprises of the following major activities or tasks.

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

7. -----

8. -----

9. -----

1. Introduction

XYZ Company as a contractor for implementing the project **Insert Project # and Name**

And according to his contractual responsibility has to provide safety plan to maintain safe work performance, protect labor's life and health and not damage the environment. A safety plan is a fundamental element of the subproject implementation system. The plan in general; outlines all activities that should be considered for safety performing construction work on site and includes steps that to be taken during all phases of implementation of the project. This plan has been arranged according to the international safety acts, by SINAAN as a measure to meet local best management practices.

It should be mentioned that this plan is prepared in accordance to the size, extent, and the complexity of the project to be implemented as well as according to the present condition, existing facilities and potential resources available in the region. All management, particularly line managers are responsible for controlling the project site during the implementation of the subproject, and supervise all the issues and mitigation measures that relate to workplace secure, safe, healthy, and without causing environment problems.

2. Objectives

This Safety Plan provides both general and specific information to XYZ Contractors on the requirements and procedures for accident prevention, safety, and security at **(Insert Project # and Name)** construction site. This includes construction, rehabilitation, repair, or services required by SINAAN.

The XYZ Company safety objective is to achieve accident-free construction/PV installation projects. It can only be achieved when all operations have been conducted in a manner that will provide safe working conditions for all employees and labors, and protect the public and all others who may be affected by construction activities. The main objectives of this safety plan can be summarized as follow:

- To eliminate hazards, or minimize it to an acceptable level of risk for people, plant and the environment.
- To promote and maintain (provide) healthy and safe work condition for employee, labors, service providers and all others involving in the construction of the project.

3. Scope

This Site Construction Safety Plan applies to all aspects of the construction/rehabilitation/PV Installation works and associated activities, to be performed for carrying out subproject **(Insert Project # and Name)** from start to the end. **XYZ Company** is responsible for considering all clauses of these documents during the implementation of the project.

4. Responsibilities

Safety must be an integral part of each job especially construction activities. Full participation, cooperation, and support are necessary to ensure the safety and health of all persons and property involved in the project. So that throughout all phases of construction, managers, supervisors, project managers, construction inspectors, construction safety specialists, and other personnel overseeing construction must monitor field activities frequently to ensure that they are conducted safely. They must ensure that appropriate measures are taken to minimize the possibility of personal injury, damage to property, adverse effects to the environment, and program disruptions or delays resulting from the accident.

All management staffs and especially line managers in XYZ Company will combine their efforts to produce a safe surrounding in the project site. Following is a short description of responsibilities of relevant management authority at the different level of XYZ Company in this regard.

4.1 Director of the Company

The director of the company is ultimately responsible for the safe performance of onsite activities, from start to end of the project. So that:

- a- He/She is responsible for producing and enhancing the system of HES&S for the project and facilitate for the smooth running of the system.
- b- He should frequently supervise the activities, project management staffs, labors, equipment and job site for safety, and analyze the safety system time by time to bring farther more improvement in HES&S system.
- c- He will assign an on-site safety and health professional with authority to enforce all the safety requirements for the project to control all aspects related directly or indirectly to safety issues. It is not necessary the safety, and health professional is a full-time employee of XYZ Company, but he shall visit the site daily, or as common understanding between XYZ Company and SINAAN.

4.2 Project Manager

- a- As a main responsible person on job site, the project manager will maintain his close cooperation with the safety specialist. He will always supervise the activities don by safety specialist and provide good support for him to perform his duty in the best manner.
- b- He will prepare and maintain necessary facilities for safety and health professional to perform his duties properly and without anxiety. He will cooperate with him to apply safety requirement and regulation in the job site.

4.3 Safety and Health Professional

- a- As the focal person for implementing SH&E regulations and plan on job site, he is responsible for creating, developing, applying and conducting safety and health principles in the workplace.
- b- He will analyze situations and conditions, predict probably risks and hazards and prepare an action plan to mitigate or eliminate the effects of risk if it happens.
- c- He will recognize the urgent needs of all those who are working in job site for protective wearing and equipment and furnish them with required wearing and equipment.
- d- In the case of occurrence an accident, he will spend his all efforts to control the situation and take urgent action to mitigate the accident effects to the minimum possible level.
- e- The safety and health professional will schedule and hold safety meetings (training) for employees, skilled and unskilled labors and all other those who are involving in construction activities.
- f- In addition to above, he will do the short sentence we can summarize the job of safety and health professional as follow:
 - Assist in conducting a workplace hazard assessment.
 - Assist in PPE selection.
 - Assist in developing worker training.
 - Conduct periodic audits of PPE program.

4.4 Labors and workers

- Attend training.
- Use personal protection equipment (PPE) when necessary

5. Submittal

XYZ company will submit the following documentation, for review and acceptance by the SINAAN.

- SH&F plan prepared by the company at least one week before commencing physical activities of the project.
- Documented evidence (CV/RESUME) of the Safety Professional.
- On time accident report, if it happened, not latter then the first 12 hrs.

6. Risks & Hazards

Construction sites are hazardous by nature. The environment is not only dangerous, the materials and chemicals that are used also pose a health threat to construction workers and others at the site. To make construction site safe, we can minimize the hazards, train employees in safe work practices and increase awareness of construction site safety. In general, there are several types of risks in construction sites that to be predicted and protected. These risks if happen; produce death, injury,

and delay in project duration, waste of resources and a series of other problems. The important type of them which XYZ company is dealing with here is health hazards on job site that can be predicted and take protective action plan for them.

Following table describes tasks, related risk, results and how to protect employees and labors.

SAMPLE TABLE FOR SITE RELATED SITE RELATED RISKS AND PREVENTIVE ACTIONS			
Type of work	Risk	Result	Protection and preventive actions
Excavations and trenches	The collapse of the side walls, Damage to underground utilities, falling of humans, equipment, and animals	Death, Physical Injury, Waste of Resources	Prevent the side walls from collapsing or slide, by battering them to a safe angle or supporting them with timber, sheeting or other proper supporting systems. Be aware of underground utilities. Provide substantial barriers: e.g., guard rails and toe boards.
Demolition	Falling material, Dust, and Pollutions, Noise, Vibration	Physical Injury, Sickness, environment damage	Always choose the lowest impact tool available that will still effectively perform the task When breaking up a slab, angle the tool to the surface and make fissures in the material. Avoiding positioning the tool perpendicular to the work
Scaffoldings	The disintegration of Scaffolding parts, Falling workers, and things	Death, Physical Injury, Waste of Resources	Assigning professional scaffolding worker. Selecting the Right Scaffold for the Job. Sound design and proper erection. Installing proper guardrails. Shall not be loaded beyond their rated and maximum capacity. Tag any incomplete scaffold or damaged component out of service
Work in elevations and towers	Falling workers and things	Death, Physical Injury, Waste of Resources	Provide -Safe access to workplace. - full body harness -Anchorage points. –Guardrails. – Maybe canopy
Painting	Existing of lead in oil paint composition	Illness	Using lead-free paints

Note: This table is prepared just as a sample. Companies shall prepare their own according to their projects

7. Personal Protective Equipment

Personal protective equipment (PPE) is used to increase individual safety while performing potentially hazardous tasks. PPE may include safety glasses, hard hats, gloves, respirators, or any equipment or clothing used to protect against injury or illness. XYZ Construction Company will ensure that the proper types of PPE are available and used by employees.

PPE comprises of special clothes and other protective elements as follows

7.1 Safety glasses

With side shields to protect against flying particles (e.g., sawdust, nails, metal shavings, etc.). Goggles should be used to protect against molten metal, liquid chemicals, acids and caustic liquids, chemical gases and vapors. Shaded eyewear should be used to protect against potentially injurious light radiation (e.g., cutting and welding, lasers).

7.2 Hard hats

Must be worn at all times during a construction project until the ceiling is finished or equivalent has been installed. All workers in areas where there is a possible danger of head injury from impact, from falling or flying objects, or from electrical shock and burns must also be protected by a hardhat.

7.3 Footwear:

Leather work shoes are required. Sneakers are not permitted. Protective footwear (e.g., steel toe boots, reinforced soles, insulated, etc.) must be worn in areas where there is the potential for foot injuries from falling or rolling objects, from objects piercing the sole, or from exposed energized electrical conductors that could contact the feet.

7.4 Clothing:

Pants must be worn while at a construction site. Shorts are not permitted.

7.5 Hand protection:

Proper hand protection (e.g., leather work gloves, welder's gloves, appropriate chemical protective gloves, etc.) to protect against cuts or lacerations, abrasions, punctures, hazards of skin absorption of harmful substances, chemical burns, thermal burns, or harmful temperature extremes must be worn.

7.6 Hearing protection

Must be worn on the job site when noise levels exceed the permissible exposure limit defined by the Occupational Safety and Health Administration under requirements outlined in OSHA 1910.95

8. Training

Each worker required to use PPE must receive training in the following:

- how to properly wear PPE
- what types of PPE protect against the hazards identified during the assessment
- when PPE must be used · the proper care and useful life of PPE
- proper disposal of damaged PPE

XYZ Company will certify in writing that workers have received and understood this training. Training assistance is available through EHS.

9. Environmental Mitigation Measures

Environmental protection is a requirement for work on SINAAN projects and will be monitored by SINAAN Engineers. The **XYZ Company** is therefore required to submit as part of the HESSP, a list of mitigation measures that will be used to reduce or eliminate the risk of adverse environmental impacts. There are several types of environmental risks on construction sites that can be predicted and protected. These risks if they occur can result in degradation of natural resources including surface and groundwater, soil and air quality.

The following table provides a list of standard mitigation measures that should be considered before submitting the HESSP to SINAAN for review and approval.

Project Phase	Activity	Potential Environmental / Social Impact	Mitigation Measures
Pre-Construction	Site selection and layout design	Impacts on sensitive habitats, land use conflicts	• Conduct environmental and social screening • Avoid protected areas, wetlands, cultural heritage sites • Optimize layout to minimize footprint
	Land acquisition and access	Land disputes, loss of livelihoods	Use government/municipal land where possible • Avoid involuntary resettlement • Prepare Resettlement Action Plan/Livelihood Restoration Plan if required

Construction	Site clearing and earthworks	Vegetation loss, soil erosion	• Limit clearing to approved areas • Mark no-go zones • Restore disturbed areas after works
	Excavation and trenching	Soil erosion, sediment runoff	• Install erosion and sediment control (berms, silt fences) • Avoid works during heavy rains
	Material transport and site traffic	Dust emissions, nuisance to communities	• Water spraying on access roads • Cover transported materials • Enforce speed limits
	Construction machinery and equipment	Noise and vibration impacts	• Restrict noisy works to daytime • Maintain equipment • Provide PPE to workers
	Construction waste generation	Soil and visual pollution	• Prepare Waste Management Plan • Segregate recyclable waste • Dispose at approved sites
	Fuel and oil storage	Soil and water contamination	• Store fuel in bunded areas • Spill kits available onsite • Train staff in spill response
	Electrical and working-at-height activities	Worker accidents and injuries	• Implement OHS Plan • Provide PPE • Toolbox talks • Emergency response plan
Operation	PV system operation	Glare and visual impacts	• Use anti-reflective PV modules • Maintain buffer distances
	Routine maintenance	Waste from damaged panels	• Store damaged panels safely • Recycle through approved recyclers

	Electrical systems	Fire and safety risks	• Install fire protection systems • Routine inspections and maintenance
	Stormwater management	Localized flooding or erosion	• Maintain drainage channels • Inspect after heavy rains
Decommissioning	Dismantling of PV system	Waste generation, land degradation	• Prepare Decommissioning Plan • Recycle panels, metals, cables • Restore site

Note: This table is prepared just as a sample. Companies shall prepare their own according to their projects

10. Security Program,

Contractors Security Program should include minimum of the following

- a. Project Site Entry Control
- b. Restrictions
- c. Project Site Security Services
- d. CV of a security person
- e. Transportation of DT GLOBAL SINAAN Local National staff to and from the job site (if required)
- f. Security Plan for provided Facilities/ Equipment (office ...etc.)
- g. Site Security Plan
- h. Security Organization Chart
- i. Emergency Procedures
- j. Parking of Machinery at site
- k. Ascertaining of the Security Threats in advance
- l. Reporting Mechanism
- m. Evacuation Plan