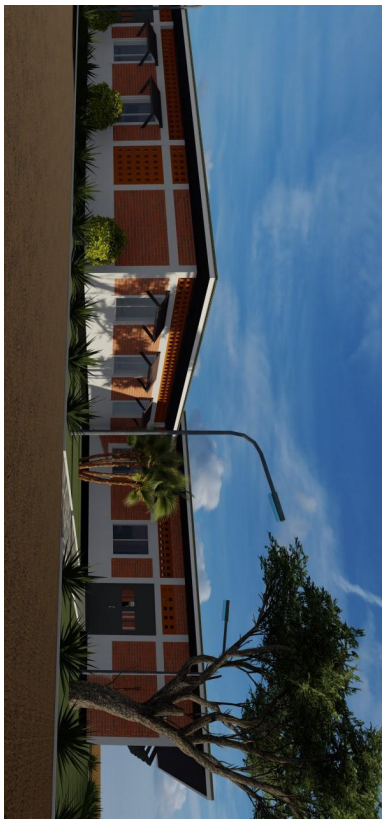
SOLAR STREET LIGHT

CLIENT:	DONOR:	CONSULTANTS:
THE UNITED REPUBLIC OF TANZANIA PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT KIGOMA REGIONRAS OFFICE P.O BOX125 ras@kigoma.go.tz	WEZESHA BINTI PROJECT, ENABEL BELGIAN DEVELOPMENT AGENCY P.O BOX24 KIGOMA TANZANIA	Peakey International Consulting Engineering Co. Ltd






3 D V I E W S

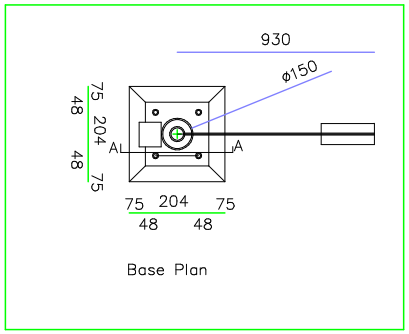
GENERAL NOTES

All dimensions are in mm

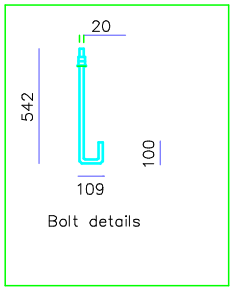
All dimensions are in mm | Scale : Not to scale

Depth of foundation may change due to subsoil condition

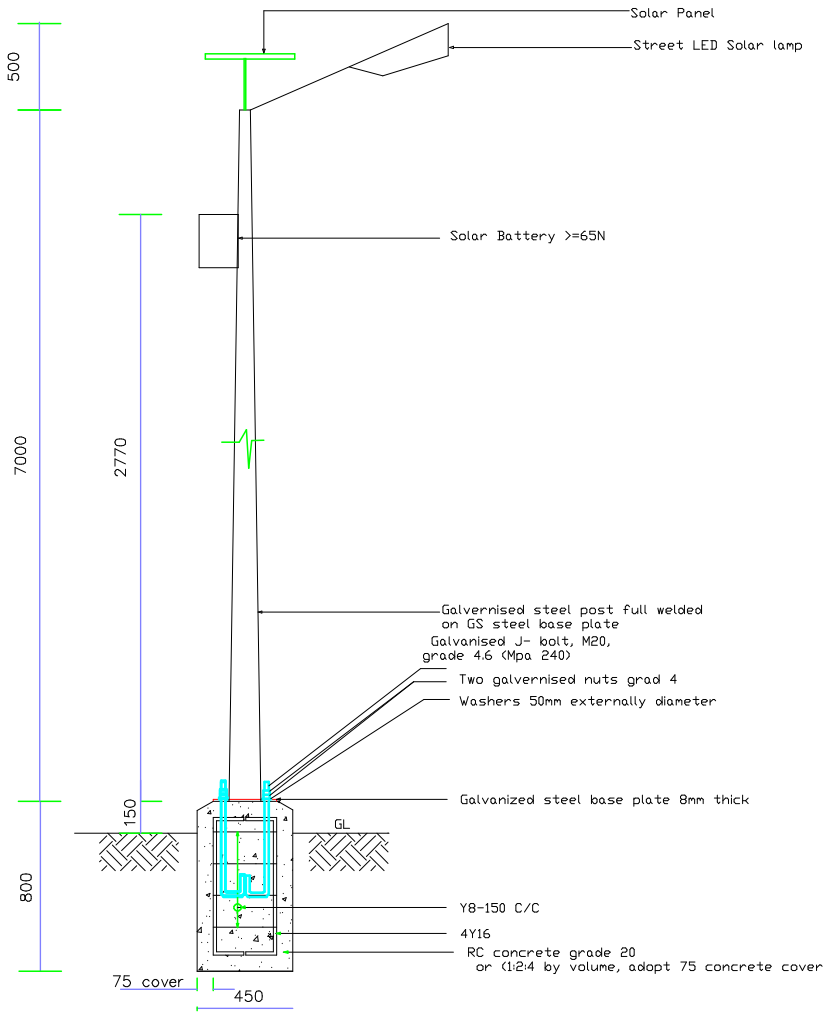
SHA BINTI PROJECT	Kigoma MC	Client	REGIONAL COMMISSIONER'S OFFICE- KIGOMA	Drawing Title	3D VIEWS
	Kigoma DC			Date	AUGUST, 2025
	Kasulu TC	Supervisor	PEAKEY INTERNATIONAL CONSULTING ENGINEERING	Scale	1:85
	Kasulu DC			Design by	ENABEL
				Checked by	PEAKEY INTERNATIONAL



Base Plan



Bolt details



Section A-A - Solar lighting pole

WEZESHA BINTI PROJECT CONSTRUCTION OF DORMITORIES AND SWASH - KIGOMA REGION

District	Kigoma MC
	Kigoma DC
	Kasulu TC
	Kasulu DC
	Kibondo DC
Date	August, 2025

DrawingTitle	Solar light pole
Date.	August 2025
Scale	Not To Scale
Drawn by	ENABEL TZ
Checked by	
Approved by	

Client	MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
Supervisor	REGIONAL ENGINEER RAS OFFICE -KIGOMA
Donor	WEZESHABINTI, ENABEL, BELIGIAN DEVELOPMENT AGENCY. Box. 24 Kigoma TZ

General Notes

1. All dimensions are in mm unless stated
2. Depth of foundations >= 0.9m may change due to subsoil
3. condition and (min RC.conrete ratio to be 1:2:4) and 1:3:6 for plain concrete
4. Scale: Not to scale

Technical Information

Pole Size				Arm			Base Plate					Anchor Bolts			Pole Foundation		
H	d1	d2	T1	L	d3	∠	L1	L2	T2	K	Q1	L3	M	Q2	W1	W2	L4
5000	65	120	3.0	800	60	12°	250	177	10	20x42	4pcs	500	ϕ16	4pcs	500	500	600
6000	65	130	3.0	800	60	12°	280	198	12	20x42	4pcs	500	ϕ16	4pcs	560	560	600
7000	65	140	3.0	1000	60	12°	280	198	12	20x42	4pcs	500	ϕ16	4pcs	560	560	600
8000	75	165	3.0	1000	60	12°	320	226	14	24x50	4pcs	900	ϕ20	4pcs	640	640	1000
9000	75	175	3.5	1200	60	12°	320	226	16	24x50	4pcs	900	ϕ20	4pcs	640	640	1000
10000	75	185	4.0	1200	60	12°	320	226	16	26x54	4pcs	1100	ϕ22	4pcs	640	640	1200
12000	90	220	4.0	1500	60	12°	400	300	20	28x58	4pcs	1100	ϕ24	4pcs	800	800	1200

Abbreviations and Notes

Abbreviations

Pole Size
1. All dimensions are in mm
2. H = Overall height of pole
3. d1 = Top Diameter of pole
4. d2 = Bottom diameter of pole
5. T1 = Shaft Wall Thickness of pole

Arm
6. L = Arm length
7. d3 = Diameter of arm
8. ∠ = Arm tilt angle

Base Plate
9. L1 = Dimension of base plate
10. L2 = Distance between holes
11. T2 = Plate Thickness
12. K = Hole Size
13. Q1 = No. of holes

Anchor Bolts
14. L3 = Bolt height
15. M = Bolt diameter
16. Q2 = No. of bolts required/Pole.

Pole Foundation
17. L4 = Deep of pole foundation
18. W1 = length of pole foundation
19. W2 = Width of pole foundation

Notes
20. Materials: Q235
21. Finish: Hot dip galvanized + Plastic spray
22. Maximum wind speed:126 Km/Hr

Standard Version

Optional B

Please note:
*1 Solar panel size varies according to different power requirements due to geographical locations.
*2 The angle of inclination for solar panels is determined based on the geographic latitude of the installation site.
*3 Depending on the autonomy days required, the size of the lithium battery will vary according to different power consumption needs.
** Only indicative, dependent on soil condition. After evaluating site conditions, please contact certified structural engineer.

Overview

Fully integrated solar system, including solar panel, energy storage (Lithium Battery) with enclosure, luminaire and pole

Solar Module

Highly efficient monocrystalline solar panel technology to maximise solar energy conversion

Street Luminaire

Highly efficient, performing and robust (IK10) LED street light luminaire (up to160lm/W)

SOLAR STREET LIGHT

GENERAL NOTES

All dimensions are in mm

All dimensions are in mm

Depth of foundation may change due to subsoil condition

Drawing Title	SOLAR STREET LIGHT
Date	AUGUST, 2025
Scale	1:85
Design by	ENABEL

Kigoma MC	Client
Kigoma DC	REGIONAL COMMISSIONER OFFICE KIGOMA
Kasulu TC	Supervisor
Kasulu DC	PEAKEY INTERNATIONAL CONSULTING ENGINEERING

SHA BINTI PROJECT