	ENGINEERING COMMENTS SHEETS	DOC NO	43024
		REV.NO.	00
		DATE	5th Mar-2015
		PP.	1 OF 2

Quotation ID	: SQ108244	Revision No.	: 00
Customer Name	: Ashwini Trading Company.	Prepared By	: VJP
Project Description	:	Reviewed By	: VJP
Pole Heights, Types & Qty.	: 40m (T) SP LP 60L	Verified By	:
Location / Sales Professional	: Kolhapur / Sandeep	Date	: 04-08-2017

The design information included with this proposal is preliminary in nature and may be refined after the award of an order. Valmont's intent is to meet the inquiry specification with the following engineering comments. Please review these, along with the design information enclosed, to assure that we have correctly interpreted the inquiry requirements.

INPUT INFORMATION RECEIVED FROM THE CLIENT

1. Email & DRF with below information.
 - a. Pole height (H2 - Up to top of Head Frame) Sports Light Pole – 40m
 - b. 60 Nos of luminaires each luminaire with wind area: 0.24m² & weight 15kg.
 - c. Location: Kolhapur
 - d. Wind speed is 39m/s
 - e. Climbing Facility: Powerlift

DESIGN

Designs are based on the following codes/standards/documents:

1. IS:875 Part III (Wind Loads) & TR-7 (High Mast Lighting)

Steel pole configuration is based on pole diagrams provided.


Steel monopole shaft consists of 20-side shape sections. **Slip Joint** between sections are included in our proposal.

Under extreme loading condition, steel pole could incur bigger deflection than lattice pole. Extra secondary bending moment and stress due to deflection (P-Δ analysis) is included in our non-linear finite element analysis. Safety and strength of poles are guaranteed in all loading conditions specified by design codes.

TYPE OF FOUNDATION

Grade of concrete is considered as M25 for Anchor Bolts design.

Steel anchor bolts are embedded in the foundation. Base plate is welded at bottom of pole shaft and pole is fixed to foundation through base plate to anchor bolts connection.

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MATERIAL GRADES

The following **materials** will be used:

- Pole shaft : ASTM A572-65 or Equivalent
- Base plate : ASTM A572-50 or Equivalent
- Anchor bolts : 6.8 Grade
- Structural shapes
(Channel, angle, pipe) : IS: 808 / IS: 1161 / IS: 2329 (YS: 240 Mpa or equivalent)
- Galvanizing : ASTM A123/ ISO 1461

FABRICATION & WELD SPECIFICATIONS

Tolerances and Weld specifications are in accordance with Valmont's standard specification.

Systems are in place that will provide the following levels of test report traceability:

1. Direct, one-to-one traceability to pole shafts and base plates
2. Batch to other structural components

The test reports and inspection records are maintained at Valmont. When requested, these can be provided to the customer no sooner than two weeks after the fabrication of the component.

SPECIFIC REQUIREMENTS FROM THE CLIENT (YES / NO) IF YES MENTION BELOW)

1. No

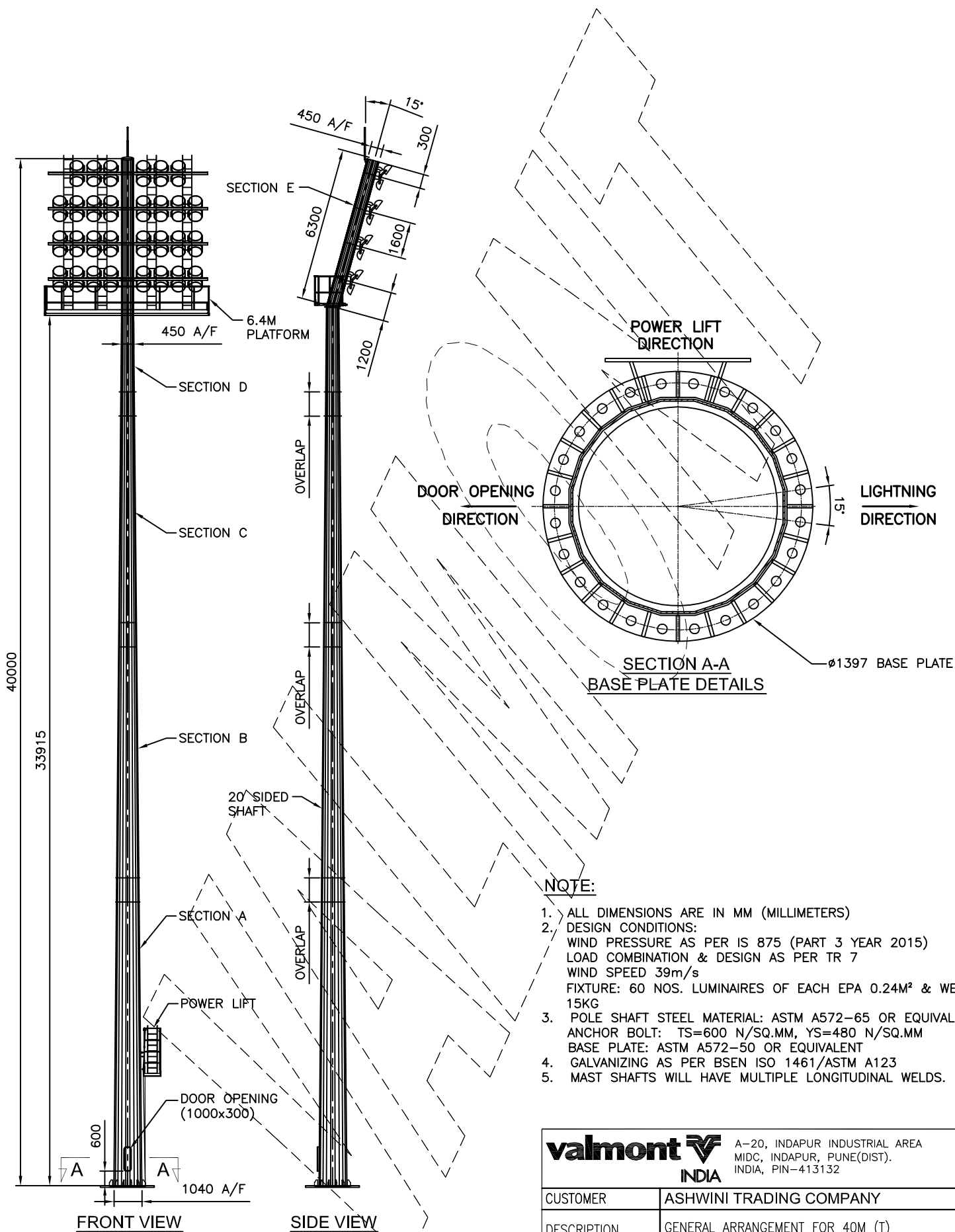
ASSUMPTIONS

1. CG boxes are arrangement at bottom of pole shaft.
2. Terrain Category is 2.
3. Mean probable design life of the structure is 25 years
4. Topography is flat

ATTACHMENTS


1. GA Drawings.

***This Engineering Comments Sheet must read in conjunction with the GA drawings submitted to you.**



NOTE:

1. ALL DIMENSIONS ARE IN MM (MILLIMETERS)
2. DESIGN CONDITIONS:
 WIND PRESSURE AS PER IS 875 (PART 3 YEAR 2015)
 LOAD COMBINATION & DESIGN AS PER TR 7
 WIND SPEED 39m/s
 FIXTURE: 60 NOS. LUMINAIRES OF EACH EPA 0.24M² & WEIGHT 15KG
3. POLE SHAFT STEEL MATERIAL: ASTM A572-65 OR EQUIVALENT
 ANCHOR BOLT: TS=600 N/SQ.MM, YS=480 N/SQ.MM
 BASE PLATE: ASTM A572-50 OR EQUIVALENT
4. GALVANIZING AS PER BSEN ISO 1461/ASTM A123
5. MAST SHAFTS WILL HAVE MULTIPLE LONGITUDINAL WELDS.

valmont  **INDIA**
 A-20, INDAPUR INDUSTRIAL AREA
 MIDC, INDAPUR, PUNE(DIST).
 INDIA, PIN-413132

CUSTOMER	ASHWINI TRADING COMPANY
DESCRIPTION	GENERAL ARRANGEMENT FOR 40M (T) SPORT LIGHT POLE SUITABLE FOR 60 LUMINAIRES

DRAWN	VJP	04-08-2017	MATERIAL		QUOTE NO	SQ108244
ENGR	VJP	04-08-2017	THK(mm)		SCALE	NTS
CHECKED			THK(mm)		SHEET NO	01 OF 01
REV NO.	DATE	DESCRIPTION	DRAWING NO	VI/PROJECTS/SP.LP/SPE/SQ108244/40M (T)/60L	REVISION	00

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