



Job No:- J-3562-ELECTRA-MB-Estimate-R0

Date :- 15.02.2026

Roof Area (m2) = 1169

1. Building Parameters

S.NO	DESCRIPTION	DETAILS
1	LOCATION	NASHIK
2	BUILDING TYPE	Multi- Span 2 (Pitched Roof)
3	WIDTH	30 m O/O of Steel Line
4	LENGTH	36.77 m O/O of Steel Line
5	HEIGHT	13.35m Clear Height
6	ROOF SLOPE	1:10
7	WIDTH MODULE	3*10M
8	BAY SPACING	7 @ 5.25 M
9	FUTURE EXPANSION	Non Expandable
10	ENDWALL BAY SPACING	6 @ 5 M
11	BRACING	Cross Rod Bracing for Roof & angle bracing Wall .
12	WALL CONDITION	3m Brickwork & above sheeting
13	STEEL GRADE	FY-345 Mpa for Primary Builtup Member & FY-245 Mpa for secondary cold form Member
14	DESIGN VERSION	STAAD.Pro Advanced CONNECT Edition

OTHER DETAILS	EOT CRANE	NA		
	CANOPY	2 No. (1.5m wide x Bay Spacing)		
	FRAMED OPENINGS	2 No. (4.0 m x 5.0 m) + 2 No. (2.5m x 2.5m)		
	MEZZANINE	1120 SQ M 2000 KG/ SQM		
	INSULATION	ROOF	N/A	
		WALL	NA	
	ACCESSORIES	Skylights	Wall Light	Roof Monitor
		Poly c. -135 SQM	Poly c.- 60SQM	36 Rmtr. 134 Rmtr.

2. Design Data

DESIGN CRITERIA	DESIGN LOADS, KN/M2	Dead Load	Live Load	Wind Load	Solar Load
		0.1	0.57	39 m/sec	0.27
	SERVICEABILITY CRITERIA	Frames	Purlins	Girts	Crane Beam
		H/100, L/180	L/180	L/120	N/A
	CRANE DATA	Bridge Weight	Trolley Wt.	Wheel Load	Wheel Base
		N/A	N/A	N/A	N/A
	MEZZANINE LOAD kN/m2	Dead Load	Live Load	Deflection	
		22 KN/m2	10 KN/m2	L/240	
	CODES	AISC/AISI/MBMA/IS:1893-2007			

3. Indicative Tonnage

Description	Weight in Kg	Remarks
Primary Steel	176882	All Built-up Members
Mezzanine JOIST	35000	Including mezz. main beams, Joist & columns.
Crane Beam		Including crane beam,cap angle & connections
Walkways & Staircase	0	
Cage ladder	0	
Anchor Bolts & Templates	3600	
Connection Bolts (Hardware)	6430	
Secondary Steel	11920	Including Coldformed members & Flange bracings
Hot Rolled Members	2122	Pipes & tubes
Roof Sheeting	0	1140 sqmtr (50 mm thick PIR panel roof.)
Roof / Wall Accessories	1092	Including All trims,gutters & Downspouts
Wall Cladding	7190	0.50MM thick Color Coated panel
Rod bracing+Sag rod	1464	
Roof Monitor	4719	
Decking Panels	14911	0.8mm thick deck sheet
STAIR CASE	7000	
Grand Total	272329.43	Kgs

4. Special Notes

1. Building is designed as an enclosed building.(Cpi=+/-0.18)
2. Purlins & Girts are considered of minimum thickness size (200Z1.5 / 2.0) mm Depth.
3. Main Frame column bases are Fixed base & wind columns are with pinned base.

4. Building is designed as per AISC-2016 (ASD).
5. Building class B considered for wind pressure calculations.
6. Cross angle bracing considered along both sidewalls.
7. Gutter & Downspouts considered.
8. Framed openings are considered.
9. Rod bracing considered over roof and same is designed as tension member only.
10. 2 Sets of braced bay considered in the Shed.
11. Canopy soffit panel not considered.
12. Seismic zone III considered as per IS 1893-2015 (Part IV).
13. Wind Load is as per IS800 .
14. Minimum Built up member thickness 5.0 mm considered.
15. Tonnage can be vary by $\pm 3\%$.