



Roof Area (m2)= 1431

Wall Area (m2) = 2497

Job No:- J-2586-JINDAL-Estimate-R0

Date :- 18.09.2025

1. Building Parameters

S.NO	DESCRIPTION	DETAILS
1	LOCATION	NASHIK
2	BUILDING TYPE	Clear Span (Pitched Roof)
3	WIDTH	17 m O/O of Steel Line
4	LENGTH	75 m O/O of Steel Line
5	HEIGHT	12 m Clear Height
6	ROOF SLOPE	1:10
7	WIDTH MODULE	1 @ 17 m
8	BAY SPACING	12 @ 6.25
9	FUTURE EXPANSION	Non Expandable
10	ENDWALL BAY SPACING	3 @ 5.9
11	BRACING	Cross Rod Bracing for Roof & Wall .
12	WALL CONDITION	full height 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. (2.5 m x 6.25 (WIDTH))			
	FRAMED OPENINGS	2No. (4.0 m x 4.0 m)			
	MEZZANINE				
	INSULATION	ROOF	N/A		
		WALL	N/A		
	ACCESSORIES	Skylights	Wall Light	LOUVERS	Turbo Vent
		NA	NA	NA	0

2. Design Data

DESIGN CRITERIA	DESIGN LOADS, KN/M2	Dead Load	Live Load	Wind Load	Solar Load
		0.1	0.57	47 m/sec	0.2
	SERVICEABILITY CRITERIA	Frames	Purlins	Girts	Crane Beam
		H/100, L/180	L/180	L/120	
	CRANE DATA	Bridge Weight	Trolley Wt.	Wheel Load	Wheel Base
	MEZZANINE LOAD kN/m2	Dead Load	Live Load	Deflection (BEAM) L/360	Deflection (JOIST) L/240
	CODES	AISC/AISI/MBMA/IS:1893-2007/IS:875-2015			

3. Indicative Tonnage

Description	Weight in Kg	Remarks
Primary Steel	26028	All Built-up Members
Mezzanine Beam	0	Including mezz. main beams, Joist & columns.
Crane Beam	0	Including crane beam, cap angle & connections
Anchor Bolts & Templates	2000	
Connection Bolts (Hardware)	2750	
Secondary Steel	24150	Including Coldformed members & Flange bracings
Hot Rolled Members	1536	Pipes & tubes
Roof Sheeting	7753	0.5MM thick sheet
Roof / Wall Accessories	3752	Including All trims, gutters & Downspouts
Wall Cladding	10737	0.50MM thick Color Coated panel
Rod bracing+Sag rod	2098	
Other Wall Accessories	0	
Grand Total	80803.31	Kgs
	80.80	Tonnes

4. Special Notes

1. Building is designed as an enclosed building.(Cpi=+/-0.2)
2. Purlins & Girts are considered of minimum thickness size (200Z1.5.0) mm Depth.
3. Main Frame column bases are Fixed base & wind columns are with pinned base.
4. Building is designed as per AISC-2010 (ASD).
5. Building Terrain category 3 considered for wind pressure calculations.
6. Cross angle bracing considered along both sidewalls in 2bays.
7. Gutter (2.0 mm) & two Downspouts pipe @ every column loaction considered.
8. 2 nos.Framed openings are considered.

9. Rod bracing (24 mm dia) considered over roof and same is designed as tension member only.
10. Two 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 MBMA-20015. (Wind Pressure=0,883 KN/m²)
14. Minimum Built up member thickness 5.0 mm considered.
- 15. Tonnage can be vary by $\pm 3\%$.**