

Section II D - RS and Job wise Bill of maetrials - 2023OVM013
(Material Composition - Bill of materials (BOM))

RS01: ADANI CEILI,NG GIRDER PACKAGE (FULL BILL OF MATERIALS) - 1855 MT					
Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM	
PLATES	BSEN	31.78%	PLATE 100 MM - BSEN 10025_3 Gr S420N	10.32%	
			PLATE 135 MM - BSEN10025-3 S420N	8.28%	
			PLATE 115 MM - BSEN10025-3GRS420N	7.35%	
			PLATE 85.0 MM-BSEN10025-3GRS420N	5.83%	
	E350BR	29.97%	PLATE-50 MM -IS2062E350GRBR	10.60%	
			PLATE-20 MM -IS2062E350GRBR	4.78%	
			PLATE-32 MM -IS2062E350GRBR	3.06%	
			PLATE-40 MM -IS2062E350GRBR	2.78%	
			PLATE-36 MM -IS2062E350GRBR	2.65%	
			PLATE 56 MM - IS2062E350BR	1.83%	
			PLATE 16 MM-IS2062E350GRBR	1.82%	
			PLATE 12 MM - IS2062E350BR	1.25%	
			PLATE 25 MM -IS2062E350GRBR	1.20%	
	E250BR	23.27%	PLATE 32.0 MM -IS2062E250BR	6.92%	
			PLATE 25.0 MM -IS2062E250BR	6.75%	
			PLATE 40.0 MM -IS2062E250BR	5.17%	
			PLATE 75.0 MM - IS2062E250BR	2.44%	
	E250A	5.42%	PLATE 50.0 MM - IS2062E250BR	1.99%	
			PLATE 12.0 MM - IS2062E250A	2.62%	
			PLATE 16.0 MM - IS2062E250A	1.24%	
			PLATE 20.0 MM - IS2062E250A	0.70%	
			PLATE 10 MM-IS2062E250A	0.45%	
			PLATE 100 MM - IS2062 E250BR	0.40%	
				PLATE 5.00 MM-IS2062E250A	0.01%
					90.44%
ROLLED SECTIONS	E250A	7.19%	ANGLE 200 x 200 x 20-IS2062E250A	1.52%	
			CHANNEL 200 x 75 -IS2062E250A	1.22%	
			CHANNEL 250 x 82 -IS2062E250A	0.75%	
			CHANNEL 400 x 100 -IS2062E250A	0.63%	
			BEAM 600 x 210 -IS2062E250A	0.60%	
			CHANNEL 150 x 75 -IS2062E250A	0.59%	
			CHANNEL 300 x 90 -IS2062E250A	0.48%	
			BEAM 200 x 100 -IS2062E250A	0.37%	
			ANGLE 100 x 100 x 10-IS2062E250A	0.22%	
			BEAM 250 x 125 -IS2062E250A	0.17%	
			ANGLE 80 x 80 x 8 -IS2062E250A	0.12%	
			ANGLE 130 x 130 x 12-IS2062E250A	0.11%	
			ANGLE 75 x 75 x 6-IS2062E250A	0.10%	
			CHANNEL 75 x 40 -IS2062E250A	0.08%	
			BEAM 500 x 180 -IS2062E250A	0.07%	
			BEAM 300 x 140 -IS2062E250A	0.06%	
			BEAM 125 x 70 -IS2062E250A	0.05%	
			BEAM 450 x 150 -IS2062E250A	0.03%	
			BEAM 400 x 140 -IS2062E250A	0.02%	
	E250BR	2.28%	H BEAM 305X165 -IS2062E250BR	2.28%	
				9.47%	
SHEETS	IS 513 CR2	0.03%	SHEET 1.6 MM - IS513 Gr.CR2	0.03%	
				0.03%	
FASTENERS	IS1362	0.06%	HEX HD BOLT M24X110-4.6 IS:1363(P-1)	0.01%	
	IS1362		HEX HD BOLT M24X160-4.6 IS:1363(P-1)	0.01%	
	IS1362		NUT -M24 -CL4-IS1363P3	0.01%	
	IS1362		BOLT-M24x120 -4.6-IS1363P1	0.01%	
	IS1362		BOLT-M24x100 -4.6-IS1363P1	0.01%	
	IS1362		BOLT-M24x80 -4.6-IS1363P1	0.01%	
				0.06%	
				100.00%	

JOB WISE BILL OF MATERIALS					
MAIN GIRDERS (1,200 MT)					
Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM	
PLATES	BSEN	50.51%	PLATE 100 MM - BSEN 10025-3 Gr S420N	16.39%	
			PLATE 135 MM - BSEN10025-3 S420N	13.16%	
			PLATE 115 MM - BSEN10025-3GRS420N	11.70%	
			PLATE 85.0 MM-BSEN10025-3GRS420N	9.26%	
	E250BR	32.84%	PLATE 32.0 MM - IS2062E250BR	10.02%	
			PLATE 25.0 MM -IS2062E250BR	7.74%	
			PLATE 40.0 MM -IS2062E250BR	7.40%	
			PLATE 75.0 MM -IS2062E250BR	3.88%	
			PLATE 50.0 MM - IS2062E250BR	3.15%	
			PLATE 100 MM - IS2062 E250BR	0.65%	
	E350BR	12.31%	PLATE-50 MM -IS2062E350GRBR	9.78%	
			PLATE-40 MM -IS2062E350GRBR	2.53%	
	E250A	1.34%	PLATE 12.0 MM - IS2062E250A	0.58%	
			PLATE 16.0 MM - IS2062E250A	0.70%	
			PLATE 20.0 MM - IS2062E250A	0.06%	
					97.00%
	ROLLED SECTIONS	E250A	2.92%	ANGLE 200 x 200 x 20-IS2062E250A	1.86%
				CHANNEL 150 x 75 -IS2062E250A	0.94%
CHANNEL 75 x 40 -IS2062E250A				0.12%	
				2.92%	
SHEETS	IS 513 CR2	0.04%	SHEET 1.6 MM - IS513 Gr.CR2	0.04%	
				0.04%	
FASTENERS	IS1362	0.04%	HEX HD BOLT M24X110-4.6 IS-1363(P-1)	0.01%	
			HEX HD BOLT M24X160-4.6 IS-1363(P-1)	0.01%	
			BOLT-M24x120 -4.6-IS1363P1	0.01%	
			NUT -M24 -CL4-IS1363P3	0.01%	
				100.00%	
CROSS GIRDERS (125 MT)					
Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM	
PLATES	E350BR	82.28%	PLATE-50 MM -IS2062E350GRBR	41.73%	
			PLATE-36 MM -IS2062E350GRBR	32.20%	
			PLATE-40 MM -IS2062E350GRBR	8.35%	
	E250BR	17.41%	PLATE 40.0 MM -IS2062E250BR	8.35%	
			PLATE 25.0 MM -IS2062E250BR	7.52%	
			PLATE 32.0 MM -IS2062E250BR	1.54%	
	E250A	0.28%	PLATE 12.0 MM - IS2062E250A	0.28%	
				99.97%	
FASTENERS	IS 1363	0.03%	HEX HD BOLT M24X160-4.6 IS-1363(P-1)	0.02%	
			NUT -M24 -CL4-IS1363P3	0.01%	
				100.00%	

NOTE:

1. Vendor shall quote their rates considering the all the E350BR grade materials as E250GRA/BR grade. Extra rates will be provided in the POs for E350BR materials as per extra rate schedule provided in the tender.

2. Final design documents are yet to be released. So, the provided BoM includes a range of specific sizes for plates & rolled sections to offer an overall understanding of the material content, it's important to note that these percentages may vary within the types of materials. The composition of overall Plates & Rolled Sections may also exhibit slight variations but will remain within a close tolerances.

CROSS BEAMS (455 MT)				
Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM
PLATES	E350BR	63.70%	PLATE-20 MM -IS2062E350GRBR	17.71%
			PLATE-32 MM -IS2062E350GRBR	11.34%
			PLATE-50 MM -IS2062E350GRBR	7.02%
			PLATE 56 MM - IS2062E350BR	6.78%
			PLATE 16 MM -IS2062E350GRBR	6.75%
			PLATE 12 MM - IS2062E350BR	4.64%
			PLATE 25 MM -IS2062E350GRBR	4.45%
			PLATE-36 MM -IS2062E350GRBR	2.52%
			PLATE-40 MM -IS2062E350GRBR	2.49%
	E250A	13.17%	PLATE 12.0 MM - IS2062E250A	7.95%
			PLATE 20.0 MM - IS2062E250A	2.41%
			PLATE 16.0 MM - IS2062E250A	1.71%
	E250BR	6.81%	PLATE 10 MM -IS2062E250A	1.10%
			PLATE 25.0 MM -IS2062E250BR	4.90%
			PLATE 32.0 MM -IS2062E250BR	1.91%
ROLLED SECTIONS	E250A	16.29%	CHANNEL 200 x 75 -IS2062E250A	4.53%
			CHANNEL 250 x 82 -IS2062E250A	2.82%
			CHANNEL 400 x 100 -IS2062E250A	2.32%
			CHANNEL 300 x 90 -IS2062E250A	1.77%
			BEAM 600 x 210 -IS2062E250A	1.72%
			ANGLE 200 x 200 x 20-IS2062E250A	1.30%
			ANGLE 80 x 80 x 8 -IS2062E250A	0.41%
			ANGLE 100 x 100 x 10-IS2062E250A	0.40%
			ANGLE 75 x 75 x 6-IS2062E250A	0.38%
			ANGLE 130 x 130 x 12-IS2062E250A	0.35%
			BEAM 500 x 180 -IS2062E250A	0.11%
			BEAM 450 x 150 -IS2062E250A	0.11%
				16.29%
FASTENERS	IS 1363	0.03%	BOLT-M24x100 -4.6-IS1363P1	0.01%
			NUT -M24 -CL4-IS1363P3	0.01%
			BOLT-M24x80 -4.6-IS1363P1	0.01%
				0.03%
				100.00%

OTHER MEMBERS (75 MT)				
Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM
ROLLED SECTIONS	E250BR	58.19%	H BEAM 305X165 -IS2062E250BR	58.19%
	E250A	24.16%	BEAM 200 x 100 -IS2062E250A	9.47%
			BEAM 250 x 125 -IS2062E250A	4.30%
			BEAM 600 x 210 -IS2062E250A	3.42%
			ANGLE 100 x 100 x 10-IS2062E250A	2.86%
			BEAM 300 x 140 -IS2062E250A	1.49%
			BEAM 125 x 70 -IS2062E250A	1.22%
			BEAM 500 x 180 -IS2062E250A	1.01%
			ANGLE 130 x 130 x 12-IS2062E250A	0.27%
			ANGLE 80 x 80 x 8 -IS2062E250A	0.09%
	ANGLE 75 x 75 x 6-IS2062E250A	0.03%		
				82.35%
PLATES	E250A	15.14%	PLATE 16.0 MM - IS2062E250A	8.64%
			PLATE 10 MM-IS2062E250A	3.67%
			PLATE 12.0 MM - IS2062E250A	2.28%
			PLATE 20.0 MM - IS2062E250A	0.37%
			PLATE 10 MM-IS2062E250A	0.14%
	PLATE 5.00 MM-IS2062E250A	0.05%		
E250BR	2.51%	PLATE 25.0 MM -IS2062E250BR	2.51%	
				17.65%
				100.00%