



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI 620 014
OUTSOURCING DEPARTMENT

NIT: 2024OVM012

NIC TENDER ID: 2024_BHEL_41135_1

CORRI GENDUM

1. Due Date for Offer Submission is extended till
07.11.2024 – 02.00 P.M
2. Section II-B RS wise Bill of materials (BoM) is shown
below along with the corresponding JPC Names for
PVC calculations for better clarity & understanding:

2b Section II B RS wise Bill of M aterials (REV.)					
RS01 Raipur 1 & 2 PG 35 Package - (COLUMN N, AW & GF) - FOR PVC CALCULATION (INDIVIDUAL BoM for Columns, AW & GF of RS01 is shown below)					
Material Type	Grade/ Code	% age in full BoM	M ATERIAL Description	% age in full BoM	ITEM TO BE CONSIDERD FOR PVC CALCULATION AS PER JPC
ANGLES	E250A	3.008	ANGLE 80 x 80 x 8 -IS2062E250A	0.014%	ANGLES 75X75X6 MM
			ANGLE 100 x 100 x 10-IS2062E250A	0.370%	ANGLES 75X75X6 MM
			ANGLE 130 x 130 x 12-IS2062E250A	0.594%	ANGLES 75X75X6 MM
			ANGLE 150 x 150 x 12-IS2062E250A	0.147%	ANGLES 75X75X6 MM
			ANGLE 150 x 150 x 16-IS2062E250A	1.373%	ANGLES 75X75X6 MM
			ANGLE 200 x 200 x 20-IS2062E250A	0.494%	ANGLES 75X75X6 MM
			ANGLE 200X200X16 - IS2062E250A	0.000%	ANGLES 75X75X6 MM
BEAM S	E250A	7.788	ANGLE 50 x 50 x 6 -IS2062E250A	0.016%	ANGLES 50X50X6 MM
			BEAM 125 x 70 -IS2062E250A	0.328%	JOISTS 125X70 MM
			BEAM 150 x 75 -IS2062E250A	0.123%	JOISTS 125X70 MM
			BEAM 200 x 100 -IS2062E250A	0.377%	JOISTS 200X100 MM
			BEAM 250 x 125 -IS2062E250A	0.413%	JOISTS 200X100 MM
			BEAM 300 x 140 -IS2062E250A	1.051%	JOISTS 200X100 MM
			BEAM 350 x 140 -IS2062E250A	0.445%	JOISTS 200X100 MM
			BEAM 400 x 140 -IS2062E250A	1.015%	JOISTS 200X100 MM
			BEAM 450 x 150 -IS2062E250A	0.361%	JOISTS 200X100 MM
			BEAM 500 x 180 -IS2062E250A	0.914%	JOISTS 200X100 MM
BOLTS	IS1363P1	0.058	BEAM 600 x 210 -IS2062E250A	2.761%	JOISTS 200X100 MM
			BOLT-M24x100 -4.6-IS1363P1	0.001%	NIL
			BOLT-M24x120 -4.6-IS1363P1	0.001%	NIL
			BOLT-M24x80 -4.6-IS1363P1	0.054%	NIL
CHANNELS	E250A	0.157	BOLT-M24x90 -4.6-IS1363P1	0.003%	NIL
			CHANNEL 75 x 40 -IS2062E250A	0.002%	CHANNELS 75X40 MM
			CHANNEL 125 x 65 MM -IS2062E250A	0.029%	CHANNELS 75X40 MM
			CHANNEL 150 x 75 -IS2062E250A	0.014%	CHANNELS 150X75 MM
			CHANNEL 200 x 75 -IS2062E250A	0.024%	CHANNELS 150X75 MM
			CHANNEL 250 x 82 -IS2062E250A	0.071%	CHANNELS 150X75 MM
H BEAM	E250BR	0.006	CHANNEL 300 x 90 -IS2062E250A	0.017%	CHANNELS 150X75 MM
			H BEAM 254X146 -IS2062E250BR	0.005%	JOISTS 200X100 MM
			H BEAM 305X165 -IS2062E250BR	0.001%	JOISTS 200X100 MM
NUTS	IS1363P3	0.016	H BEAM 406 X 178 -IS2062E250BR	0.001%	JOISTS 200X100 MM
			NUT -M24 -CL4-IS1363P3	0.016%	NIL
PLATES	ASTM A		PLATE 115 MM - ASTM A36	1.539%	PLATES 25 MM
	E250A		PLATE 10 MM -IS2062E250A	2.390%	PLATES 10 MM
			PLATE 12.0 MM - IS2062E250A	1.506%	PLATES 12 MM
			PLATE 16.0 MM - IS2062E250A	8.362%	PLATES 12 MM
			PLATE 20.0 MM - IS2062E250A	6.177%	PLATES 12 MM
			PLATE 5.00 MM - IS2062E250A	0.014%	PLATES 6 MM
			PLATE 8.00 MM - IS2062E250A	0.001%	PLATES 6 MM
	E250BR		PLATE 100 MM - IS2062 E250BR	0.360%	PLATES 25 MM
			PLATE 25.0 MM -IS2062E250BR	2.898%	PLATES 25 MM
			PLATE 32.0 MM -IS2062E250BR	3.344%	PLATES 25 MM
			PLATE 36.0 MM -IS2062E250BR	0.900%	PLATES 25 MM
			PLATE 40.0 MM -IS2062E250BR	2.891%	PLATES 25 MM
			PLATE 50.0 MM - IS2062E250BR	1.387%	PLATES 25 MM
			PLATE 56.0 MM - IS2062E250BR	0.155%	PLATES 25 MM
			PLATE 63.0 MM -IS2062E250BR	0.184%	PLATES 25 MM
			PLATE 75.0 MM -IS2062E250BR	0.211%	PLATES 25 MM
	E350B0		PLATE 12.0 MM-IS2062E350B0	0.000%	PLATES 12 MM
			PLATE 16 MM -IS2062E350B0	0.000%	PLATES 12 MM
	E350BR	88.911	PLATE 10 MM - IS2062E350BR	0.259%	PLATES 10 MM
			PLATE 12 MM - IS2062E350BR	1.460%	PLATES 12 MM
			PLATE 14 MM - IS2062E350BR	0.872%	PLATES 12 MM
			PLATE 16 MM -IS2062E350GRBR	5.578%	PLATES 12 MM
			PLATE 18 MM - IS2062E350BR	0.493%	PLATES 12 MM
			PLATE 22 MM - IS2062E350BR	0.913%	PLATES 12 MM
			PLATE 25 MM -IS2062E350GRBR	8.121%	PLATES 25 MM
			PLATE 28 MM - IS2062E350BR	0.771%	PLATES 25 MM
			PLATE 30 MM - IS2062E350BR	0.724%	PLATES 25 MM
			PLATE 38 MM - IS2062E350BR	1.143%	PLATES 25 MM
			PLATE 45 MM - IS2062E350BR	0.459%	PLATES 25 MM
			PLATE 56 MM - IS2062E350BR	2.334%	PLATES 25 MM
			PLATE 20 MM -IS2062E350GRBR	8.749%	PLATES 12 MM
			PLATE 32 MM -IS2062E350GRBR	6.617%	PLATES 25 MM
			PLATE 36 MM -IS2062E350GRBR	4.543%	PLATES 25 MM
			PLATE 40 MM -IS2062E350GRBR	5.412%	PLATES 25 MM
			PLATE 50 MM -IS2062E350GRBR	6.359%	PLATES 25 MM
			PLATE 63 MM -IS2062E350GRBR	1.785%	PLATES 25 MM
SHEETS		0.056	SHEET 1.6 MM - IS513 Gr.CR2	0.056%	H. R. COILS 2.00 MM
			TOTAL WT.	100.000%	
RS01 Raipur 1 & 2 PG 35 Package (Columns, AW & GF) - 35 PG - Column(8100 M T)					
Material Type	Grade/ Code	% age in full BoM	M ATERIAL Description	% age in full BoM	
			PLATE 10 MM - IS2062E350BR	0.000%	
			PLATE 12 MM - IS2062E350BR	0.208%	

PLATES	E350BR	83.950	PLATE 14 MM - IS2062E350BR	0.141%
			PLATE 16 MM -IS2062E350GRBR	8.922%
			PLATE 18 MM - IS2062E350BR	0.096%
			PLATE 22 MM - IS2062E350BR	0.146%
			PLATE 25 MM -IS2062E350GRBR	12.793%
			PLATE 28 MM - IS2062E350BR	0.172%
			PLATE 30 MM - IS2062E350BR	0.190%
			PLATE 38 MM - IS2062E350BR	0.320%
			PLATE 45 MM - IS2062E350BR	0.178%
			PLATE 56 MM - IS2062E350BR	2.904%
			PLATE-20 MM -IS2062E350GRBR	13.911%
			PLATE-32 MM -IS2062E350GRBR	11.360%
			PLATE-36 MM -IS2062E350GRBR	8.295%
			PLATE-40 MM -IS2062E350GRBR	9.563%
			PLATE-50 MM -IS2062E350GRBR	11.447%
	E250A	6.380	PLATE-63 MM -IS2062E350GRBR	3.306%
			PLATE 10 MM -IS2062E250A	3.763%
			PLATE 12.0 MM - IS2062E250A	0.471%
			PLATE 16.0 MM - IS2062E250A	1.116%
			PLATE 20.0 MM - IS2062E250A	1.001%
	E250BR	6.330	PLATE 5.00 MM - IS2062E250A	0.025%
			PLATE 100 MM - IS2062 E250BR	0.667%
			PLATE 25.0 MM -IS2062E250BR	1.445%
			PLATE 32.0 MM -IS2062E250BR	1.521%
			PLATE 36.0 MM -IS2062E250BR	0.437%
			PLATE 40.0 MM -IS2062E250BR	1.028%
			PLATE 50.0 MM - IS2062E250BR	0.471%
			PLATE 56.0 MM - IS2062E250BR	0.060%
	ASTMA	2.846	PLATE 63.0 MM -IS2062E250BR	0.306%
			PLATE 75.0 MM -IS2062E250BR	0.391%
BEAM S	E250A	0.310	PLATE 115 MM - ASTM A36	2.849%
			PLATE 12.0 MM -IS2062E350B0	0.001%
			PLATE 16 MM -IS2062E350B0	0.000%
			BEAM 150 x 75 -IS2062E250A	0.004%
			BEAM 200 x 100 -IS2062E250A	0.003%
			BEAM 250 x 125 -IS2062E250A	0.000%
			BEAM 300 x 140 -IS2062E250A	0.121%
			BEAM 350 x 140 -IS2062E250A	0.002%
			BEAM 400 x 140 -IS2062E250A	0.008%
			BEAM 450 x 150 -IS2062E250A	0.007%
			BEAM 500 x 180 -IS2062E250A	0.020%
			BEAM 600 x 210 -IS2062E250A	0.144%
ANGLES	E250A	0.070	ANGLE 130 x 130 x 12-IS2062E250A	0.061%
			ANGLE 200 x 200 x 20-IS2062E250A	0.011%
CHANNELS	E250A	0.002	CHANNEL 200 x 75 -IS2062E250A	0.002%
SHEETS	IS513 Gr.CR2	0.100	SHEET 1.6 MM - IS513 Gr.CR2	0.103%
BOLTS	IS1363P1	0.010	BOLT-M 24x80 - 4.6-IS1363P1	0.008%
NUTS	IS1363P3	0.002	NUT -M 24 -CL4-IS1363P3	0.002%
TOTAL				100.00%
RS01 Raipur 1 & 2 PG 35 Package (Columns, AW & GF) - 35 PG - Auto weld (5,000 M T)				
Material Type	Grade/ Code	% age in full BoM	M ATERIAL Description	% age in full BoM
PLATES	E250A	39.360	PLATE 10 MM -IS2062E250A	0.785%
			PLATE 12.0 MM - IS2062E250A	2.301%
			PLATE 16.0 MM - IS2062E250A	19.879%
			PLATE 20.0 MM - IS2062E250A	16.395%
			PLATE 8.00 MM - IS2062E250A	0.004%
	E350BR	33.620	PLATE 10 MM - IS2062E350BR	0.776%
			PLATE 12 MM - IS2062E350BR	4.007%
			PLATE 14 MM - IS2062E350BR	2.386%
			PLATE 16 MM -IS2062E350GRBR	2.236%
			PLATE 18 MM - IS2062E350BR	1.323%
			PLATE 22 MM - IS2062E350BR	2.502%
			PLATE 25 MM -IS2062E350GRBR	3.611%
			PLATE 28 MM - IS2062E350BR	2.034%
			PLATE 30 MM - IS2062E350BR	1.865%
			PLATE 38 MM - IS2062E350BR	2.911%
			PLATE 45 MM - IS2062E350BR	1.088%
			PLATE 56 MM - IS2062E350BR	2.297%
			PLATE-20 MM -IS2062E350GRBR	3.665%
			PLATE-32 MM -IS2062E350GRBR	1.447%
			PLATE-36 MM -IS2062E350GRBR	0.190%
			PLATE 40 MM -IS2062E350GRBR	0.743%
			PLATE-50 MM -IS2062E350GRBR	0.534%
	E250BR	26.650	PLATE 25.0 MM -IS2062E250BR	6.263%
			PLATE 32.0 MM -IS2062E250BR	7.568%
			PLATE 36.0 MM -IS2062E250BR	1.993%
			PLATE 40.0 MM -IS2062E250BR	7.008%
			PLATE 50.0 MM - IS2062E250BR	3.398%
			PLATE 56.0 MM - IS2062E250BR	0.369%
			PLATE 63.0 MM -IS2062E250BR	0.057%
			BEAM 125 x 70 -IS2062E250A	0.005%
			BEAM 150 x 75 -IS2062E250A	0.000%
			BEAM 200 x 100 -IS2062E250A	0.004%

BEAM S	E250A	0.130	BEAM 250 x 125 -IS2062E250A	0.011%
			BEAM 300 x 140 -IS2062E250A	0.036%
			BEAM 350 x 140 -IS2062E250A	0.018%
			BEAM 400 x 140 -IS2062E250A	0.010%
			BEAM 500 x 180 -IS2062E250A	0.014%
			BEAM 600 x 210 -IS2062E250A	0.033%
ANGLES	E250A	0.060	ANGLE 80 x 80 x 8 -IS2062E250A	0.002%
			ANGLE 100 x 100 x 10 -IS2062E250A	0.001%
			ANGLE 130 x 130 x 12 -IS2062E250A	0.051%
			ANGLE 150 x 150 x 12 -IS2062E250A	0.002%
			ANGLE 200X200X16 - IS2062E250A	0.001%
BOLTS	IS1363P1	0.140	BOLT-M24x100 -4.6-IS1363P1	0.003%
			BOLT-M24x120 -4.6-IS1363P1	0.003%
			BOLT-M24x80 -4.6-IS1363P1	0.126%
			BOLT-M24x90 -4.6-IS1363P1	0.008%
NUTS	IS1363P3	0.040	NUT -M24 -CL4-IS1363P3	0.039%
TOTAL				100.00%

RS01 Raipur 1 & 2 PG 35 Package (Columns, AW & GF) - 35 PG - General Fabrication(1,900 M T)

Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM
BEAM S	E250A	59.820	BEAM 125 x 70 -IS2062E250A	2.58%
			BEAM 150 x 75 -IS2062E250A	0.96%
			BEAM 200 x 100 -IS2062E250A	2.95%
			BEAM 250 x 125 -IS2062E250A	3.23%
			BEAM 300 x 140 -IS2062E250A	7.69%
			BEAM 350 x 140 -IS2062E250A	3.46%
			BEAM 400 x 140 -IS2062E250A	7.96%
			BEAM 450 x 150 -IS2062E250A	2.82%
			BEAM 500 x 180 -IS2062E250A	7.09%
BEAM S	E250BR	0.050	BEAM 600 x 210 -IS2062E250A	21.10%
			H BEAM 254X146 -IS2062E250BR	0.04%
			H BEAM 305X165 -IS2062E250BR	0.00%
			H BEAM 406 X 178 -IS2062E250BR	0.00%
ANGLES	E250A	23.290	ANGLE 80 x 80 x 8 -IS2062E250A	0.10%
			ANGLE 100 x 100 x 10 -IS2062E250A	2.92%
			ANGLE 130 x 130 x 12 -IS2062E250A	4.30%
			ANGLE 150 x 150 x 12 -IS2062E250A	1.15%
			ANGLE 150 x 150 x 16 -IS2062E250A	10.84%
			ANGLE 200 x 200 x 20 -IS2062E250A	3.85%
			ANGLE 50 x 50 x 6 -IS2062E250A	0.12%
CHANNELS	E250A	1.230	CHANNEL 75 x 40 -IS2062E250A	0.01%
			CHANNEL 125 x 65 MM -IS2062E250A	0.23%
			CHANNEL 150 x 75 -IS2062E250A	0.11%
			CHANNEL 200 x 75 -IS2062E250A	0.18%
			CHANNEL 250 x 82 -IS2062E250A	0.56%
PLATES	E250A	14.880	CHANNEL 300 x 90 -IS2062E250A	0.13%
			PLATE 10 MM -IS2062E250A	0.76%
			PLATE 12.0 MM - IS2062E250A	3.83%
			PLATE 16.0 MM - IS2062E250A	8.94%
	E250BR	0.650	PLATE 20.0 MM - IS2062E250A	1.35%
			PLATE 5.00 MM - IS2062E250A	0.01%
			PLATE 25.0 MM -IS2062E250BR	0.24%
			PLATE 12 MM - IS2062E350BR	0.10%
			PLATE 14 MM - IS2062E350BR	0.01%
			PLATE 16 MM -IS2062E350GRBR	0.11%
			PLATE 25 MM -IS2062E350GRBR	0.07%
			PLATE-20 MM -IS2062E350GRBR	0.12%
BOLTS	IS1363P1	0.060	BOLT-M24x80 -4.6-IS1363P1	0.06%
NUTS	IS1363P3	0.020	NUT -M24 -CL4-IS1363P3	0.02%
TOTAL				100.00%

RS02 Raipur 1 & 2 Plus & Box Columns (1,400 M T)

Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM	ITEM TO BE CONSIDERD FOR PVC CALCULATION AS PER JPC
Beam	IS2062E250GRA	0.37	BEAM 600 x 210 -IS2062E250A	0.36	JOISTS200X100 MM
			BEAM 500 x 180 -IS2062E250A	0.01	JOISTS200X100 MM
bolt	IS:1363(P-1)	0.01	BOLT-M24x80 -4.6-IS1363P1	0.01	NIL
nut	IS:1363(P-3)	0.003	NUT -M24 -CL4-IS1363P3	0.003	NIL
PLATES	ASTMA36	1.53	PLATE 115 MM - ASTMA36	1.53	PLATES25 MM
	IS2062E250GRA/ 250BR	25.63	PLATE 10 MM -IS2062E250A	3.42	PLATES10 MM
			PLATE 12.0 MM - IS2062E250A	1.95	PLATES12 MM
			PLATE 16.0 MM - IS2062E250A	1.82	PLATES12 MM
			PLATE 20.0 MM - IS2062E250A	1.79	PLATES12 MM
			PLATE 25.0 MM -IS2062E250BR	4.90	PLATES25 MM
			PLATE 32.0 MM -IS2062E250BR	4.22	PLATES25 MM
			PLATE 100 MM - IS2062 E250BR	2.67	PLATES25 MM
			PLATE 75.0 MM -IS2062E250BR	1.84	PLATES25 MM
			PLATE 40.0 MM -IS2062E250BR	1.26	PLATES25 MM
			PLATE 50.0 MM - IS2062E250BR	0.96	PLATES25 MM
			PLATE 36.0 MM -IS2062E250BR	0.38	PLATES25 MM
			PLATE 63.0 MM -IS2062E250BR	0.36	PLATES25 MM

	IS2062E350BR	72.35	PLATE 56.0 MM - IS2062E250BR	0.05	PLATES 25 MM
			PLATE 25 MM - IS2062E350GRBR	32.56	PLATES 25 MM
			PLATE 20 MM - IS2062E350GRBR	17.86	PLATES 12 MM
			PLATE 16 MM - IS2062E350GRBR	9.80	PLATES 12 MM
			PLATE 32 MM - IS2062E350GRBR	9.64	PLATES 25 MM
			PLATE 36 MM - IS2062E350GRBR	1.49	PLATES 25 MM
			PLATE 12 MM - IS2062E350BR	0.37	PLATES 12 MM
			PLATE 18 MM - IS2062E350BR	0.32	PLATES 12 MM
			PLATE 28 MM - IS2062E350BR	0.14	PLATES 25 MM
			PLATE 14 MM - IS2062E350BR	0.14	PLATES 12 MM
			PLATE 22 MM - IS2062E350BR	0.02	PLATES 12 MM
sheet	IS513D/IS513 P1 CR2	0.1	SHEET 1.6 MM - IS513 Gr. CR2	0.10	H. R. COILS 2.00 MM
TOTAL				100.00%	

RS03 Raipur 1 & 2 Box Columns (2,400 M T)

Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM	ITEM TO BE CONSIDERED FOR PVC CALCULATION AS PER JPC
PLATE	E250A/ E250BR	50.571	PLATE 14.0 MM -IS2062E250A	14.626%	PLATES 12 MM
			PLATE 16.0 MM - IS2062E250A	9.370%	PLATES 12 MM
			PLATE 25.0 MM -IS2062E250BR	6.057%	PLATES 25 MM
			PLATE 32.0 MM -IS2062E250BR	5.494%	PLATES 25 MM
			PLATE 40.0 MM -IS2062E250BR	3.163%	PLATES 25 MM
			PLATE 18 MM -IS2062E250GRA	2.942%	PLATES 12 MM
			PLATE 20.0 MM - IS2062E250A	1.993%	PLATES 12 MM
			PLATE 22 MM - IS2062E250GRBR_N	1.289%	PLATES 12 MM
			PLATE 28.0 MM -IS2062E250BR	1.221%	PLATES 25 MM
			PLATE 50.0 MM - IS2062E250BR	0.993%	PLATES 25 MM
			PLATE 30 MM - IS2062E250GRBR	0.857%	PLATES 25 MM
			PLATE 12.0 MM - IS2062E250A	0.634%	PLATES 12 MM
			PLATE 56.0 MM - IS2062E250BR	0.633%	PLATES 25 MM
			PLATE 36.0 MM -IS2062E250BR	0.583%	PLATES 25 MM
			PLATE 63.0 MM -IS2062E250BR	0.390%	PLATES 25 MM
	PLATE 10 MM -IS2062E250A	0.326%	PLATES 10 MM		
	E350BR	47.808	PLATE 32 MM -IS2062E350GRBR	11.396%	PLATES 25 MM
			PLATE 25 MM -IS2062E350GRBR	10.966%	PLATES 25 MM
			PLATE 16 MM -IS2062E350GRBR	6.697%	PLATES 12 MM
			PLATE 36 MM -IS2062E350GRBR	5.704%	PLATES 25 MM
			PLATE 56 MM - IS2062E350BR	4.231%	PLATES 25 MM
			PLATE 40 MM -IS2062E350GRBR	4.079%	PLATES 25 MM
			PLATE 20 MM -IS2062E350GRBR	2.112%	PLATES 12 MM
			PLATE 50 MM -IS2062E350GRBR	1.699%	PLATES 25 MM
			PLATE 28 MM - IS2062E350BR	0.214%	PLATES 25 MM
			PLATE 14 MM - IS2062E350BR	0.198%	PLATES 12 MM
			PLATE 12 MM - IS2062E350BR	0.189%	PLATES 12 MM
			PLATE 22 MM - IS2062E350BR	0.161%	PLATES 12 MM
			PLATE 18 MM - IS2062E350BR	0.087%	PLATES 12 MM
			PLATE 30 MM - IS2062E350BR	0.066%	PLATES 25 MM
			PLATE 10 MM - IS2062E350BR	0.007%	PLATES 10 MM
BEAM			E250A	1.621	BEAM 600 x 210 -IS2062E250A
	BEAM 500 x 180 -IS2062E250A	0.557%			JOISTS 200X100 MM
	BEAM 300 x 140 -IS2062E250A	0.112%			JOISTS 200X100 MM
	BEAM 400 x 140 -IS2062E250A	0.070%			JOISTS 200X100 MM
	BEAM 450 x 150 -IS2062E250A	0.034%			JOISTS 200X100 MM
	BEAM 350 x 140 -IS2062E250A	0.027%			JOISTS 200X100 MM
	BEAM 250 x 125 -IS2062E250A	0.002%			JOISTS 200X100 MM
TOTAL				100.00%	

RS04 Raipur 1 & 2 AUTOWELD (7,600 M T)

Material Type	Grade/ Code	% age in full BoM	MATERIAL Description	% age in full BoM	ITEM TO BE CONSIDERED FOR PVC CALCULATION AS PER JPC
PLATES	IS2062E250GRA/ IS2062E250GRBR	82.56	PLATE 16.0 MM - IS2062E250A	20.36	PLATES 12 MM
			PLATE 20.0 MM - IS2062E250A	17.39	PLATES 12 MM
			PLATE 12.0 MM - IS2062E250A	5.27	PLATES 12 MM
			PLATE 14.0 MM IS2062E250A	2.22	PLATES 12 MM
			PLATE 10 MM -IS2062E250A	0.82	PLATES 10 MM
			PLATE 18 MM -IS2062E250GRA	0.51	PLATES 12 MM
			PLATE 5.00 MM - IS2062E250A	0.03	PLATES 6 MM
			PLATE 8.00 MM -IS2062E250A	0.0003	PLATES 6 MM
			PLATE 6.00 MM - IS2062E250A	0.0002	PLATES 6 MM
			PLATE 25.0 MM -IS2062E250BR	11.06	PLATES 25 MM
			PLATE 32.0 MM -IS2062E250BR	9.84	PLATES 25 MM
			PLATE 36.0 MM -IS2062E250BR	5.14	PLATES 25 MM
			PLATE 40.0 MM -IS2062E250BR	4.39	PLATES 25 MM
			PLATE 63.0 MM -IS2062E250BR	2.90	PLATES 25 MM
			PLATE 50.0 MM - IS2062E250BR	2.14	PLATES 25 MM
			PLATE 56.0 MM - IS2062E250BR	0.35	PLATES 25 MM
			PLATE 22 MM - IS2062E250GRBR_N	0.07	PLATES 12 MM
			PLATE 20.0 MM - IS2062E250GRBR_N	0.05	PLATES 12 MM
			PLATE 16.0 MM - IS2062E250GRBR_N	0.05	PLATES 12 MM
			PLATE 12.0 MM -IS2062E250GRBR_N	0.01	PLATES 12 MM
			PLATE 25.0 MM - IS2062E250GRBR_N	0.0003	PLATES 25 MM
			PLATE 10.0 MM - IS2062E250GRBR_N	0.0001	PLATES 10 MM

	IS2062E350BR	16.36	PLATE 12 MM - IS2062E350BR	2.96	PLATES 12 MM
			PLATE 25 MM -IS2062E350GRBR	2.06	PLATES 25 MM
			PLATE-20 MM -IS2062E350GRBR	1.88	PLATES 12 MM
			PLATE 16 MM -IS2062E350GRBR	1.78	PLATES 12 MM
			PLATE 14 MM - IS2062E350BR	1.39	PLATES 12 MM
			PLATE 18 MM - IS2062E350BR	1.31	PLATES 12 MM
			PLATE 28 MM - IS2062E350BR	1.16	PLATES 25 MM
			PLATE 22 MM - IS2062E350BR	1.10	PLATES 12 MM
			PLATE-50 MM -IS2062E350GRBR	0.72	PLATES 25 MM
			PLATE 10 MM - IS2062E350BR	0.66	PLATES 10 MM
			PLATE 30 MM - IS2062E350BR	0.55	PLATES 25 MM
			PLATE 56 MM - IS2062E350BR	0.40	PLATES 25 MM
			PLATE-32 MM -IS2062E350GRBR	0.18	PLATES 25 MM
			PLATE-40 MM -IS2062E350GRBR	0.17	PLATES 25 MM
			PLATE-36 MM -IS2062E350GRBR	0.04	PLATES 25 MM
			PLATE 8 MM - IS2062E350BR	0.0003	PLATES 6 MM
			PLATE 5 MM - IS2062E350BR	0.0002	PLATES 6 MM
ANGLES	IS2062E250GRA	0.411	ANGLE 130 x 130 x 12-IS2062E250A	0.34	ANGLES 75X75X6 MM
			ANGLE 200 x 200 x 20-IS2062E250A	0.05	ANGLES 75X75X6 MM
			ANGLE 150 x 150 x 16-IS2062E250A	0.01	ANGLES 75X75X6 MM
			ANGLE 80 x 80 x 8 -IS2062E250A	0.01	ANGLES 75X75X6 MM
			ANGLE 100 x 100 x 10-IS2062E250A	0.004	ANGLES 75X75X6 MM
BEAM	IS2062E250GRA	0.405	BEAM 600 x 210 -IS2062E250A	0.21	JOISTS 200X100 MM
			BEAM 500 x 180 -IS2062E250A	0.08	JOISTS 200X100 MM
			BEAM 400 x 140 -IS2062E250A	0.04	JOISTS 200X100 MM
			BEAM 125 x 70 -IS2062E250A	0.02	JOISTS 125X70 MM
			BEAM 300 x 140 -IS2062E250A	0.02	JOISTS 200X100 MM
			BEAM 450 x 150 -IS2062E250A	0.02	JOISTS 200X100 MM
			BEAM 350 x 140 -IS2062E250A	0.01	JOISTS 200X100 MM
			BEAM 250 x 125 -IS2062E250A	0.0021	JOISTS 200X100 MM
			BEAM 200 x 100 -IS2062E250A	0.0006	JOISTS 200X100 MM
BEAM 150 x 75 -IS2062E250A	0.0003	JOISTS 125X70 MM			
BOLT	IS:1363(P-1)	0.149	BOLT-M24x80 -4.6-IS1363P1	0.14	NIL
			BOLT-M24x90 -4.6-IS1363P1	0.01	NIL
			BOLT-M24x120 -4.6-IS1363P1	0.002	NIL
			BOLT-M24x100 -4.6-IS1363P1	0.001	NIL
CHANNEL	IS2062E250GRA	0.021	CHANNEL 400 x 100 -IS2062E250A	0.01	CHANNELS 150X75 MM
			CHANNEL 250 x 82 -IS2062E250A	0.01	CHANNELS 150X75 MM
			CHANNEL 125 x 65 MM -IS2062E250A	0.00	CHANNELS 75X40 MM
BOLT	IS:1363(P-1)	0.001	HEX HD BOLT M24X110-4.6 IS:1363(P-1)	0.00	NIL
NUT	IS:1363(P-3)	0.042	HEX HD BOLT M24X160-4.6 IS:1363(P-1)	0.00	NIL
SHEET	IS1079D	0.014	NUT -M24 -CL4-IS1363P3	0.04	NIL
	IS513D/ IS513 P1 CR2	0.000	SHEET 4 MM - IS1079 Gr.HR2	0.01	H. R. COILS 3.15 MM
			SHEET 3.15 MM - IS1079 Gr.HR2	0.004	H. R. COILS 3.15 MM
				0.000	H. R. COILS 2.00 MM
TOTAL				100.00%	
RS05 Raipur 1 & 2 GENERAL FABRICATION (4,600 M T)					
Material Type	Grade/ Code	% age in full BoM	M ATERIAL Description	% age in full BoM	ITEM TO BE CONSIDERD FOR PVC CALCULATION AS PER JPC
ANGLES	IS2062E250GRA	5.28	ANGLE 130 x 130 x 12-IS2062E250A	2.13	ANGLES 75X75X6 MM
			ANGLE 100 x 100 x 10-IS2062E250A	1.73	ANGLES 75X75X6 MM
			ANGLE 200 x 200 x 20-IS2062E250A	0.46	ANGLES 75X75X6 MM
			ANGLE 80 x 80 x 8 -IS2062E250A	0.36	ANGLES 75X75X6 MM
			ANGLE 150 x 150 x 12-IS2062E250A	0.33	ANGLES 75X75X6 MM
			ANGLE 150 x 150 x 16-IS2062E250A	0.21	ANGLES 75X75X6 MM
			ANGLE 75 x 75 x 6-IS2062E250A	0.05	ANGLES 75X75X6 MM
			ANGLE 50 x 50 x 6 -IS2062E250A	0.00	ANGLES 50X50X6 MM
Beam	IS2062E250GRA	76.838	BEAM 600 x 210 -IS2062E250A	17.04	JOISTS 200X100 MM
			BEAM 500 x 180 -IS2062E250A	12.35	JOISTS 200X100 MM
			BEAM 200 x 100 -IS2062E250A	9.12	JOISTS 200X100 MM
			BEAM 300 x 140 -IS2062E250A	7.21	JOISTS 200X100 MM
			BEAM 125 x 70 -IS2062E250A	6.97	JOISTS 125X70 MM
			BEAM 400 x 140 -IS2062E250A	6.35	JOISTS 200X100 MM
			BEAM 250 x 125 -IS2062E250A	5.36	JOISTS 200X100 MM
			BEAM 350 x 140 -IS2062E250A	4.74	JOISTS 200X100 MM
			BEAM 450 x 150 -IS2062E250A	4.36	JOISTS 200X100 MM
			BEAM 150 x 75 -IS2062E250A	3.34	JOISTS 125X70 MM
Channel	IS2062E250GRA	11.811	CHANNEL 200 x 75 -IS2062E250A	4.96	CHANNELS 150X75 MM
			CHANNEL 150 x 75 -IS2062E250A	2.40	CHANNELS 150X75 MM
			CHANNEL 250 x 82 -IS2062E250A	2.05	CHANNELS 150X75 MM
			CHANNEL 125 x 65 MM -IS2062E250A	1.87	CHANNELS 75X40 MM
			CHANNEL 300 x 90 -IS2062E250A	0.26	CHANNELS 150X75 MM
			CHANNEL 400 x 100 -IS2062E250A	0.17	CHANNELS 150X75 MM
			CHANNEL 100 x 50 - IS2062E250A	0.12	CHANNELS 75X40 MM
			CHANNEL 75 x 40 -IS2062E250A	0.00	CHANNELS 75X40 MM
H Beam	IS2062E250GRBR	0.016	H BEAM 305X165 -IS2062E250BR	0.02	JOISTS 200X100 MM
	IS2062E250GRA/ 250BR	5.370	PLATE 12.0 MM - IS2062E250A	1.73	PLATES 12 MM
			PLATE 10 MM -IS2062E250A	1.24	PLATES 10 MM
			PLATE 16.0 MM - IS2062E250A	1.21	PLATES 12 MM
			PLATE 5.00 MM - IS2062E250A	0.33	PLATES 6 MM
			PLATE 20.0 MM - IS2062E250A	0.27	PLATES 12 MM
			PLATE 6.00 MM - IS2062E250A	0.02	PLATES 6 MM
			PLATE 8.00 MM -IS2062E250A	0.00	PLATES 6 MM

PLATES			PLATE 25.0 MM - IS2062E250BR	0.38	PLATES 25 MM
			PLATE 32.0 MM - IS2062E250BR	0.17	PLATES 25 MM
			PLATE 50.0 MM - IS2062E250BR	0.00	PLATES 25 MM
			PLATE 10.0 MM - IS2062E250GRBR_N	0.01	PLATES 10 MM
			PLATE 12.0 MM - IS2062E250GRBR_N	0.00	PLATES 12 MM
	IS2062E350BR	0.663	PLATE 25 MM - IS2062E350GRBR	0.17	PLATES 25 MM
			PLATE 16 MM - IS2062E350GRBR	0.15	PLATES 12 MM
			PLATE 20 MM - IS2062E350GRBR	0.11	PLATES 12 MM
			PLATE 30 MM - IS2062E350BR	0.08	PLATES 25 MM
			PLATE 12 MM - IS2062E350BR	0.05	PLATES 12 MM
			PLATE 18 MM - IS2062E350BR	0.04	PLATES 12 MM
			PLATE 22 MM - IS2062E350BR	0.04	PLATES 12 MM
			PLATE 14 MM - IS2062E350BR	0.02	PLATES 12 MM
			PLATE 10 MM - IS2062E350BR	0.00	PLATES 10 MM
Sheet	IS513D/ IS513 P1 CR2	0.000	SHEET 1.6 MM - IS513 Gr. CR2	0.00	H. R. COILS 2.00 MM
BOLT	IS:1363(P-1)	0.020	BOLT-M 24x80 -4.6-IS1363P1	0.02	NIL
			BOLT-M 12x70 -4.6-IS1363P1	0.00	NIL
			BOLT-M 24x90 -4.6-IS1363P1	0.00	NIL
NUT	IS:1363(P-3)	0.010	NUT -M 24 -CL4-IS1363P3	0.01	NIL
			NUT -M 12 -CL4-IS1363P3	0.00	NIL
	IS:2016	0.0005	PUN WASHER-M 12 -IS2016-A	0.0005	NIL
TOTAL				100.00	

1. Vendors have to submit their quotations based on the assumption that all PLATE materials as E250A/ BR grade. Additional extra rates will be provided for E350BR plate materials.

2. While the provided BoM includes a 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, Sheets, Bolts & Nuts may also exhibit slight variations but will remain within close tolerances.

PVC NOT APPLICABLE FOR - BOLTS, NUTS & WASHERS

3. Clause – 2.1.79 of Section - I Tender Terms & Conditions is revised as below:

The applicability of these extra rate schedules shall be indicated in Purchase Order(s) (P.O.):

Table-3

Extra	Description
Extra RS01	Material cost differential between E350 BR/ GrA and E250 BR/ GrA.
Extra RS02	Material cost differential between E350 BR/ GrA and E250 BR/ GrA including SAW Consumable cost differential used for E350-E350 material welding and E250-E250 material
CTRS1	Special Crating Charges / MT
ODRS1	Single ODC Freight Rate, if Length is more than 12.2 m upto 15 m or width ODC (more than 2.4 m up to 4m) or height ODC (more than 2.2 m up to 3m)
ODRS2	Combination ODC Freight Rate, i.e combination of any 2 or 3 dimensions falling under ODC's Length above 12.2M up to 15M/ Width ODC (more than 2.4 m up to 4m) / Height ODC (more than 2.2 m up to 3m)
ODRS3	Length ODC Freight Rate / MT over & above ODRS1 or ODRS2 for each meter increment and part thereof in the length above 15 M till 24 M Width ODC Freight Rate / MT over & above ODRS1 or ODRS2 for each 0.5 meter increment and part thereof in the width above 4 M. Height ODC Freight Rate / MT over & above ODRS1 or ODRS2 for each 0.5 meter increment and part thereof in the Height above 3 M.
SPRS	PAINTING & BLAST CLEANING charges

- Extra rates for E350 material is applicable for **RS01 to RS05.**
Extra RS02 is applicable for RS01 to RS04
Extra RS01 is applicable for RS05
- Fabrication of few items shall involve a combination of E250 grade and E350 grade of raw material. Rate for E350 BR grade of raw material including SAW Consumable (RS01 – RS04) and Rate for E350 BR grade of raw material (RS05) are pre-fixed and it will be operated as an extra which shall be over and above the finalized rate as detailed in above table.
- Vendor shall quote their rates considering the materials as E250 grade. Extra rates will be provided for E350 BR materials as per pre-fixed rates for extra rate schedule given in **Section III.**

For e.g.: **“Below example is only for illustration purpose”**

- ✓ For **RS01**, the DU weight of an Auto Welded beam is **14 MT (Quantity 1 Number).**
- ✓ Out of **14 MT**, **10 MT** is E250 BR/ GrA & **4 MT** is E350 BR.
- ✓ Rate finalized for **RS01** is **Rs. 20,000 per MT.**

The order value shall be as follows:

a) Basic Value = Rs. 2,80,000

[Finalized Rate (Rs. 20,000 / M T) * Weight (14 M T)]

b) Extra value for E350 BR = Rs. 15,600

[Prefixed Rate for Extra RS02 (Rs. 3900 per M T) * Weight for E350 BR (4 M T)]

c) Total Value = Rs. 2,95,600 [a + b]

4. Section III Pre-Fixed Extra Rates is revised as below

(Extra RS01 is included):

NIT 2024OVM 012				
Extra Rate Schedules with Pre-fixed rates (Rev.)				
Sl. No	EXTRA RATE SCHEDULE	EXTRA RATE SCHEDULE DESCRIPTION	Rate	
1	Extra RS01	Material cost differential between E350 BR/ GrA and E250 BR/ GrA	Rs 3,050 / M T	
2	Extra RS02	Material cost differential between E350 BR/ GrA and E250 BR/ GrA including SAW Consumable cost differential used for E350-E350 material welding and E250-E250 material	Rs 3,900 / M T	
3	CTRS1	Special Crating Charges / MT	Rs 3,500 / M T	
4	ODRS1	Single ODC Freight Rate, if Length is more than 12.2 m upto 15 m or width ODC (more than 2.4 m up to 4m) or height ODC (more than 2.2 m up to 3m)	Rs 1170 / M T	
5	ODRS2	Combination ODC Freight Rate, i.e combination of any 2 or 3 dimensions falling under ODC's Length above 12.2M up to 15M/ Width ODC (more than 2.4 m up to 4m) / Height ODC (more than 2.2 m up to 3m)	Rs 1620 / M T	
6	ODRS3	Length ODC Freight Rate / MT over & above ODRS1 or ODRS2 for each meter increment and part thereof in the length above 15 M till 24 M Width ODC Freight Rate / MT over & above ODRS1 or ODRS2 for each 0.5 meter increment and part thereof in the width above 4 M. Height ODC Freight Rate / MT over & above ODRS1 or ODRS2 for each 0.5 meter increment and part thereof in the Height above 3 M.	Rs 360 / M T	
7	SPRS	PAINTING & BLAST CLEANING charges	Refer below Table	
PAINTING & BLAST CLEANING				
Sl no	RS No.	BROAD DESCRIPTION OF "SPRS"	UOM	Rate per UOM
1	24885	Labour cost for one coat of painting	SQM	9
2	24888	Synthetic enamel long alkyd to IS2932	SQM	16
3	24889	red oxide primer to IS:2074/ IS:12744/ rust preventive oil	SQM	19
4	24890	RAL 9002 primer paint	SQM	23
5	24891	Inorganic ethyl zinc silicate primer	SQM	110
6	24892	Epoxy finish paint	SQM	33
7	24893	Epoxy Zinc phosphate primer	SQM	26
8	24894	Epoxy based polyamide cured TiO2 / MiO	SQM	62
9	24895	Chlorinate rubber base zinc phosphate primer	SQM	28
10	24896	Chlorinated finish paint	SQM	27
11	24897	Heat resistant aluminium paing grade 2 / grade 1	SQM	39
12	24898	Aliphatic acrylic polyurethane	SQM	33
13	24899	Epoxy polyamide cured finish paint	SQM	37
14	24912	Epoxy Glass Flake Paint	SQM	80
15	24913	Moisture curing Inorganic Ethyl Zinc Silicate primer coat	SQM	101
16	24904	HB Epoxy Zinc Rich primer (80% Zn dust pigment)	SQM	82
17	24914	Two Part Aliphatic Isocyanate Cured Acrylic Finish Paint With Gloss Retention Of Level 2, Smoke Grey Shade	SQM	71
18	24915	Two Part Chemically Cured Polyurethene Primer	SQM	87

NIT: 2024OVM 012

19	24916	Two Part Epoxy Primer	SQM	27
20	24918	High Build Gloss Aliphatic Acrylic Polyurethane Paint	SQM	46
21	24874	Blast cleaning of jobs above 30 MTs	SQM	168
22	24875	Blast cleaning of jobs above 20 MTs & upto 30 MTs	SQM	168
23	24876	Blast cleaning of jobs above 15 MTs & upto 20 MTs	SQM	162
24	24877	Blast cleaning of jobs above 10 MTs & upto 15 MTs	SQM	157
25	24878	Blast cleaning of jobs above 5 MTs	SQM	145
26	24879	Blast cleaning of Ducts (above 100kgs & upto 5 MTs)	SQM	145
27	24880	Blast cleaning of jobs upto 50 kgs	SQM	179
28	24881	Blast cleaning of jobs above 50 kgs	SQM	179
29	24882	Blast cleaning of running metre items upto 100 Kg	SQM	145
30	24883	Blast cleaning of running metre items above 100 kgs	SQM	134
31	24884	Blast cleaning of jobs above 100kg to 5 MTs (other than ducts)	SQM	157

*** * ***

Participation in NIT 2024OVM012 by a vendor will be considered as acceptance of all Terms & Conditions, including corrigendum