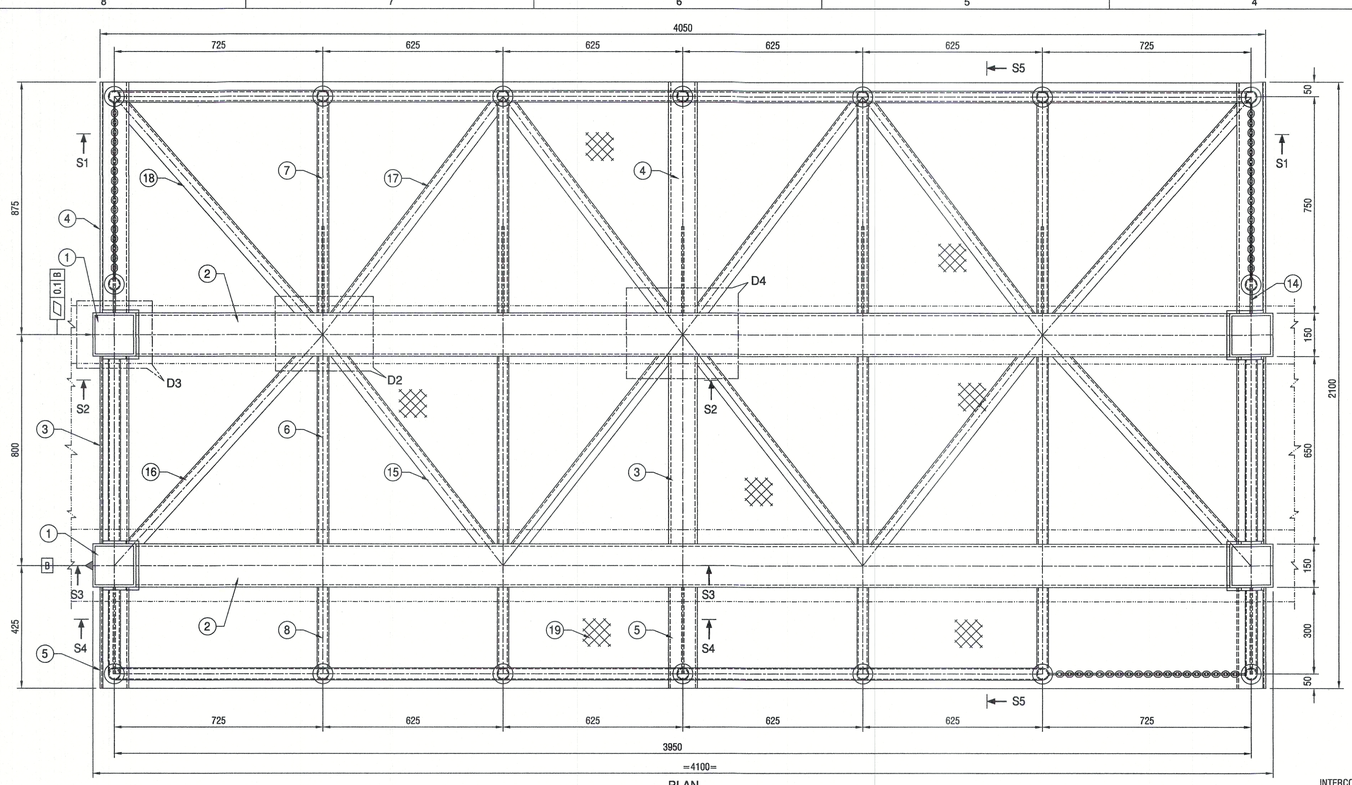
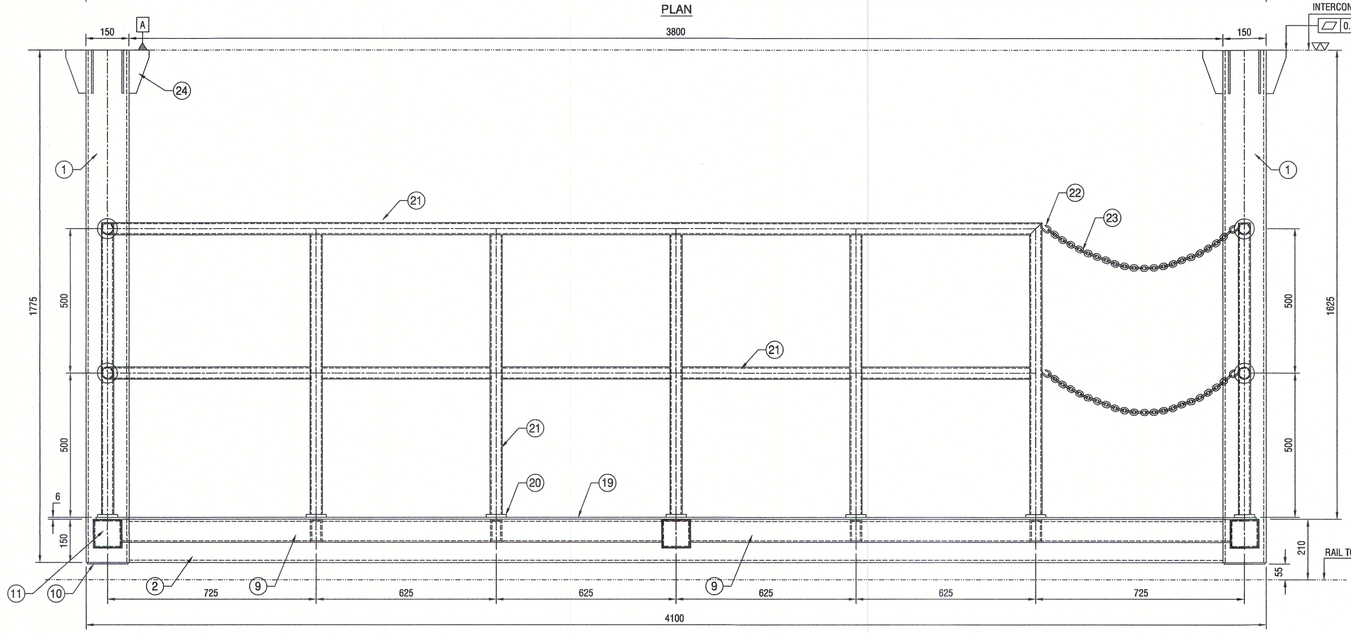
REF. DRG. NO. 10-MECH-12-8-23/A1/R1

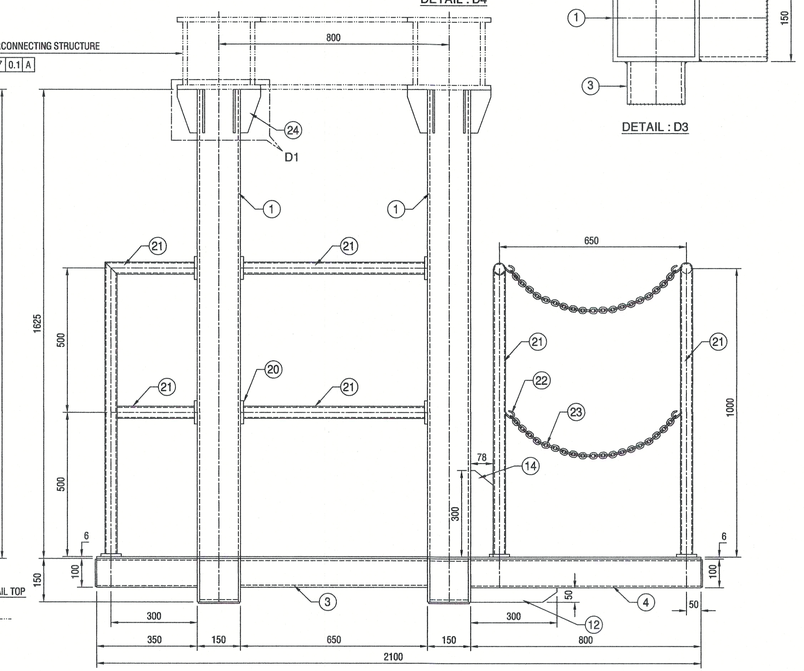
COM. FILE NO. SCEND/VVR/AH-28/2024/A1/BHARATH



PLAN



ELEVATION

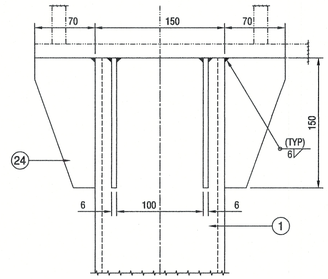


SIDE VIEW

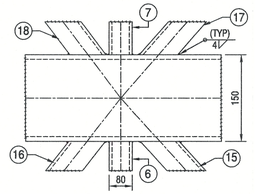
NOTES

1. ALL DIMENSIONS SHOWN ARE FINAL MACHINED DIMENSIONS
2. ALL THE WELDS ARE OF 6 mm SIZE FILLET UNLESS OTHERWISE SPECIFIED
3. ALL WELDS ARE TO BE DP TESTED FOR ROOT AND FINAL PASSES TO ENSURE WELD QUALITY
4. ALL WELDING SHALL BE CARRIED OUT AS PER IS : 9595
5. ALL PLATES ABOVE 16mm THICKNESS SHALL BE QUALIFIED BY U . T
6. APPROVED PAINTING SHALL BE FOLLOWED AS PER PURCHASE ORDER
7. QUANTITY IS GIVEN FOR ONE ASSEMBLY ONLY. NUMBER OF ASSEMBLIES REQUIRED IS TWO
8. ALL MATING SURFACES, BORES & THREADED HOLES SHALL BE GREASED
9. STRESS RELIEVING IS TO BE CARRIED OUT AFTER COMPLETION OF ALL WELDING & BEFORE MACHINING
10. CHECK THE STATUS OF THE DRAWING BEFORE FABRICATION / MACHINING
11. AT SITE CONDITION BASED ON REQUIRED THE PART NO 21 LENGTH CAN BE INCREASED / DECREASED BY 5000mm

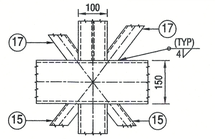
(REFER DRAWING NO 10-MECH-12-8-24/A1/R1 SHEET 2 OF 2)



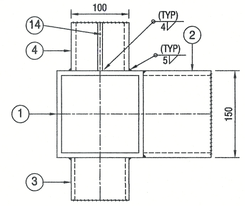
DETAIL : D1



DETAIL : D2



DETAIL : D4



DETAIL : D3

S. NO.	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
1	SQUARE HOLLOW SECTION 150 x 150 x 8.0 WALL THICK - 1775Lg	IS : 4923 YST 310 Grade	4	244	TATA STRUCTURA
2	SQUARE HOLLOW SECTION 150 x 150 x 8.0 WALL THICK - 3800Lg	IS : 4923 YST 310 Grade	2	261	TATA STRUCTURA
3	SQUARE HOLLOW SECTION 100 x 100 x 6.0 WALL THICK - 650Lg	IS : 4923 YST 310 Grade	3	33	TATA STRUCTURA
4	SQUARE HOLLOW SECTION 100 x 100 x 6.0 WALL THICK - 800Lg	IS : 4923 YST 310 Grade	3	41	TATA STRUCTURA
5	SQUARE HOLLOW SECTION 100 x 100 x 6.0 WALL THICK - 350Lg	IS : 4923 YST 310 Grade	3	18	TATA STRUCTURA
6	RECTANGULAR HOLLOW SECTION 80 x 40 x 4.8 WALL THICK - 650Lg	IS : 4923 YST 310 Grade	4	20	TATA STRUCTURA
7	RECTANGULAR HOLLOW SECTION 80 x 40 x 4.8 WALL THICK - 730Lg	IS : 4923 YST 310 Grade	4	23	TATA STRUCTURA
8	RECTANGULAR HOLLOW SECTION 80 x 40 x 4.8 WALL THICK - 280Lg	IS : 4923 YST 310 Grade	4	9	TATA STRUCTURA
9	RECTANGULAR HOLLOW SECTION 80 x 40 x 4.8 WALL THICK - 1875Lg	IS : 4923 YST 310 Grade	4	59	TATA STRUCTURA
10	PLATE 144 x 144 x 5Thk	IS : 2062 E 250	4	3	
11	PLATE 92 x 92 x 5Thk	IS : 2062 E 250	6	2	
12	STIFENNER PLATE 300 x 50 x 6Thk	IS : 2062 E 250	3	2	
13	STIFENNER PLATE 300 x 70 x 6Thk	IS : 2062 E 250	4	4	
14	STIFENNER PLATE 300 x 78 x 6Thk	IS : 2062 E 250	2	2	
15	ISA 50 x 50 x 5Thk - 850Lg	IS : 808	4	13	
16	ISA 50 x 50 x 5Thk - 910Lg	IS : 808	2	7	
17	ISA 50 x 50 x 5Thk - 930Lg	IS : 808	4	14	
18	ISA 50 x 50 x 5Thk - 970Lg	IS : 808	2	7	
19	CHEQUARED PLATE 4030 x 2080 x 6Thk.	IS : 3503	1	395	SUITABLY CUT AND WELD
20	PLATE Ø70 x 8Thk	IS : 2062 E 250	28	7	
21	40NB PIPE (MEDIUM) 35000Lg	IS : 1161	1	125	CUT AND USE AS REQUIRED
22	EYE HOOKS TO SUIT NOMINAL CHAIN Ø10	IS : 3822	12		
23	STEEL CHAIN SLINGS 850Lg (Ø10)	IS : 3822	6		
24	STIFENNER PLATE 150 x 70 x 6Thk	IS : 2062 E 250	32	16	

TOTAL WEIGHT : 1305 Kgs. (Approx)

STATUS	SIGN	DATE
DISCUSSION / REVIEW		
TENDER PURPOSE		
FABRICATION		3/9/24

UNRESTRICTED | RESTRICTED | CONFIDENTIAL

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DO NOT SCALE THE DRAWING
ASK IF IN DOUBT
UNLESS OTHERWISE SHOWN
ALL DIMENSIONS ARE IN MILLIMETERS
REMOVE SHARP EDGES & BURRS
CHAMFER 1 M.M. X 45°
MACHINING FINISH IN MICRONS :–
▽ 8 – 25 ▽▽ 1.6 – 8
▽▽▽ 0.025 – 1.6 ▽▽▽▽ < 0.025

DEVIATION FOR NON TOLERANCED DIMENSIONS (IS –2102)

DIAMETERS & LENGTHS	
UPTO & INCL.	6 ±0.1
6 –	30 ±0.2
30 –	120 ±0.3
120 –	315 ±0.5
315 –	1000 ±0.8
1000 –	2000 ±1.2
2000 –	4000 ±2.0
4000 & ABOVE	±3.0

LENGTH IN M.M. OF SHORTER SIDE OF ANGLE UPTO & INCL.	
1– 6	± 1'–0d'
6– 30	± 0'–3d'
30–120	± 0'–2d'
120–400	± 0'–1d'

SCEND
SHAR CENTRAL DESIGNS

	SIGN.	DATE
DESIGNED		3/9/24
DES.CHKD		
DRAWN	V. V. R	11.12.23
DRG.CHKD		3/9/24
APPROVED		

TITLE
MAINTENANCE PLATFORM
FOR WHEEL BOGIE SYSTEM OF SLC PROJECT

GOVERNMENT OF INDIA
INDIAN SPACE RESEARCH ORGANISATION
SATISH DHAWAN SPACE CENTRE SHAR
SRIHARIKOTA

PROJECTION

SCALE 1 : 10

DRG. NO. 10-MECH-12-8-23/A1/R1

SHEET 1 OF 2

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS