



SATCOM CONSULTANCY SERVICES

3.8 Mtr C/Ku Band Receive Antenna System

The 3.8 Mtr Antenna in Ku / C Band delivers good performance and can be used in Receive only applications and meet all the international specifications.

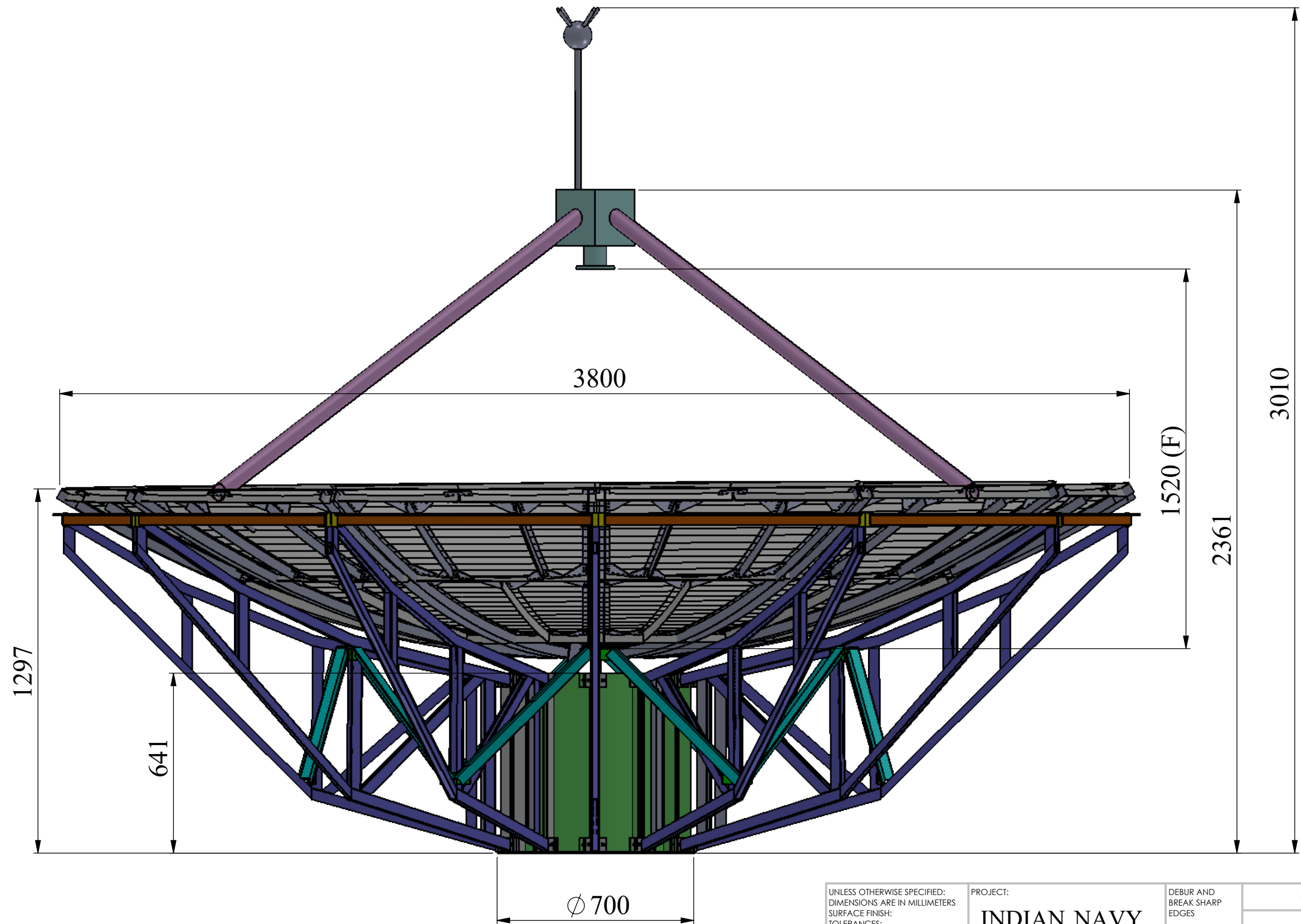
The Antenna features Prime Focus Configuration reflector with 12 panels mounted on 12 Radial Trusses which emanate from a Center Hub. Reflector is made up of Aluminium and NP Mount with MS Galvanized.

Features

- ✓ Prime focus
- ✓ Feed 2 Port Rx only
- ✓ Turnkey Installation, Commissioning including Civil Foundation.
- ✓ Optional – Penetrating Mount
- ✓ Motorization Kit for Az, El & Feed.

SPECIFICATIONS

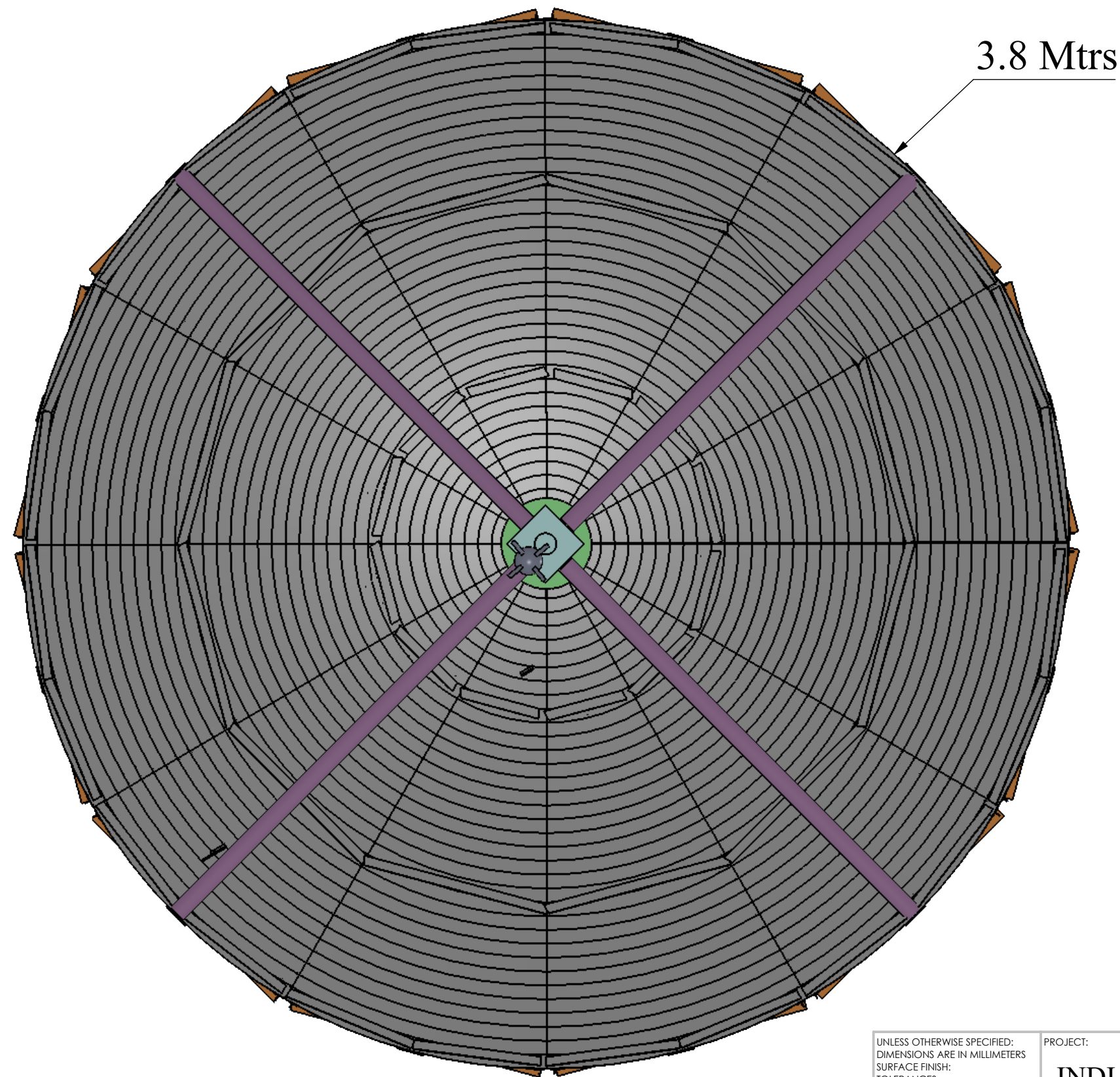
	Ku Band	C Band
Antenna Size	3.8 Mtr	
Antenna Type	Prime Focus	
Frequency of Operation (GHZs)	10.75 to 12.75	3.7 - 4.2
Antenna Gain (± 0.5 dBi)	51.0	41.4
G/T (Typical) Ku band	30 dB/°K with 70° K LNA	22.5 dB/°K with 35° K LNA
Cross Pol. Discrimination	30 dB Min	30 dB Min
VSWR	1.3:1	1.3:1
Output Wave Guide Flange	WR 75 - Ku Band	WR 229 - C Band
Azimuth Travel	$\pm 30^\circ$ Continuous and 360° in 4 segments	
Elevation Travel	$5^\circ - 90^\circ$ Continuous	
Polarization Travel	$\pm 95^\circ$ Continuous	
Mount Structure	Steel (Galvanized).	
Space required for Antenna	3 x 3 Mtr	
Operation Winds	100 Kmph	
Survival Wind	200 Kmph	
Ambient Temperature	-45°C to $+50^\circ \text{C}$	
Rain	Upto 100 mm / hr	
Humidity	100%	



FRONT VIEW

F/D RATIO : 0.4
DISH DIA : 3.8 Mtrs
FOCAL LENGTH :1520

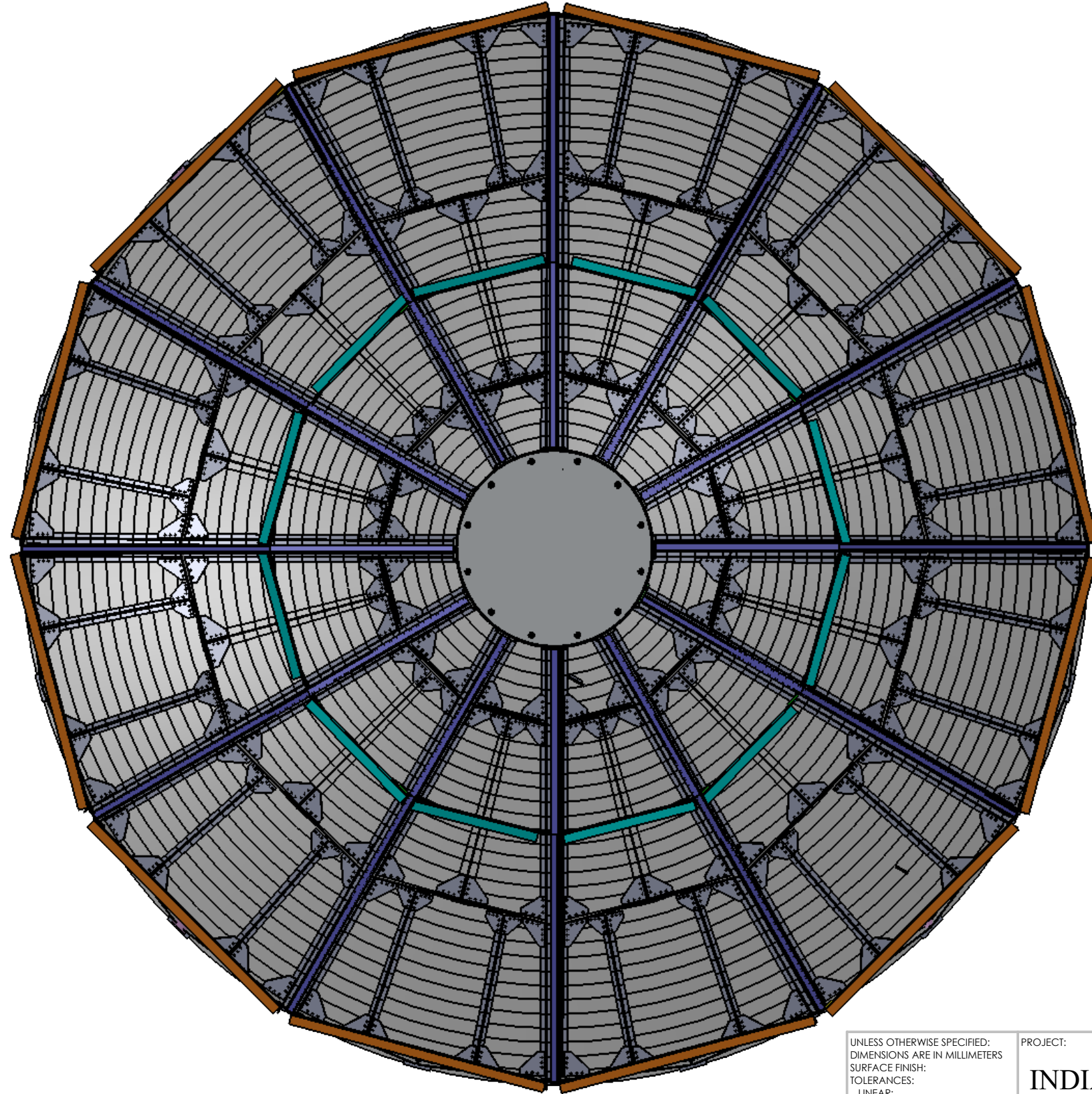
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				PROJECT: INDIAN NAVY		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
							SATCOM CONSULTANCY SERVICES	
DRAWN	MJP	SIGNATURE	DATE	16-02-2023			DESCRIPTION: 3.8 Mtrs ANTENNA	
CHK'D								
APPV'D								
MFG								
Q.A								
						MATERIAL:	DWG NO.	
							A3	
						WEIGHT:	SCALE:1:20	SHEET 1 OF 3



TOP VIEW

F/D RATIO : 0.4
DISH DIA : 3.8 Mtrs
FOCAL LENGTH :1520

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		PROJECT: INDIAN NAVY				DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION	
		SATCOM CONSULTANCY SERVICES								
DRAWN	NAME MJP	SIGNATURE	DATE 16-02-2023				DESCRIPTION: 3.8 Mtrs ANTENNA			
CHK'D										
APPV'D										
MFG										
Q.A										
				MATERIAL:			DWG NO.		A3	
				WEIGHT:			SCALE:1:20		SHEET 2 OF 3	



BOTTOM VIEW

F/D RATIO : 0.4
DISH DIA : 3.8 Mtrs
FOCAL LENGTH :1520

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		PROJECT: INDIAN NAVY		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						SATCOM CONSULTANCY SERVICES			
DRAWN	NAME MJP	SIGNATURE	DATE 16-02-2023			DESCRIPTION: 3.8 Mtrs ANTENNA			
CHK'D									
APPV'D									
MFG									
Q.A						MATERIAL:		DWG NO.	
						WEIGHT:		SCALE:1:20	
								SHEET 3 OF 3	

A3