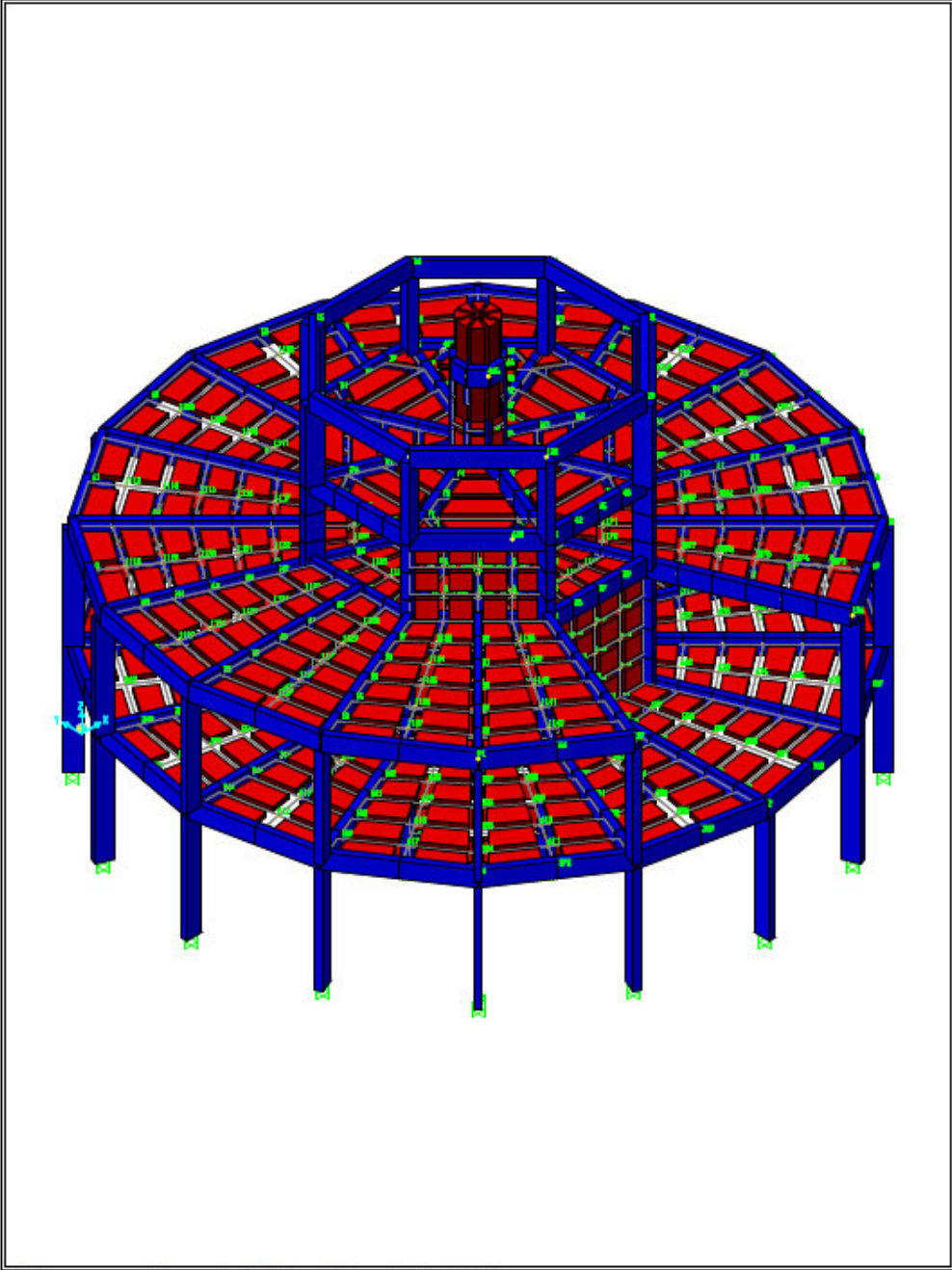# Infrastructure for Doppler weather Radar Project at Chirapunjee
Architect: BEL, Bangalore

3D MODEL

Design Codes and Standards:

a) IS 456-2002 Plain and Reinforced Concrete- Code of Practice

   b) National Building Code of India 2005 (NBC 2005)

Design Loading:

Dead load:

   a) Self-weight of framing + concrete slab+ floor finish.

Live load:

   a) Live load 300kg/sq

Wind & Seismic loads:

   a) IS 875 part 3, code of practice for design loads (other than earthquake) for buildings and structures

   b) IS 1893 (Part 1): 2002, criteria for earthquake resistant design of structure .225g governs lateral design

Other Criteria

1)   The Building is designed for having a minimum natural frequency of 7 hz.

2)   Deflections limits : Maximum tip deflection of 0.05 (12 mm)

Figure 3. Radome assembly above the equator

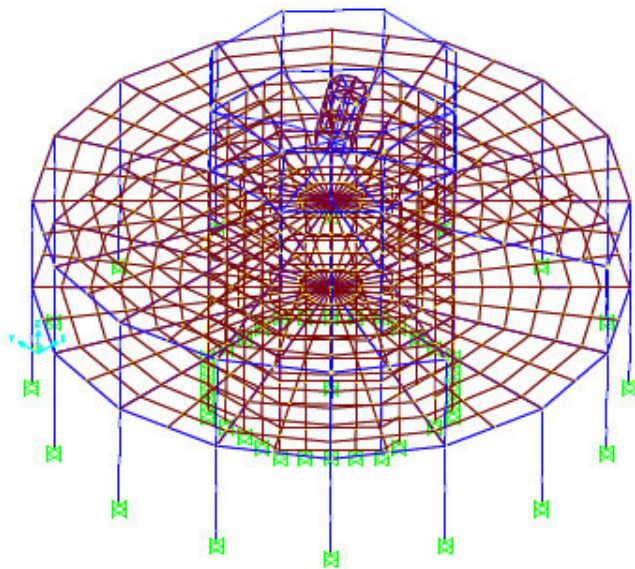Figure 2. CSIR-NAL's DWR Radome assembly below the equator level

Figure 4. View of the fully assembled Radome from a distance

SITE PHOTOS

TABLE: Modal Periods And Frequencies						
OutputCase	StepType	StepNum	Period	Frequency	CircFreq	Eigenvalue
Text	Text	Unitless	Sec	Cyc/sec	rad/sec	rad2/sec2
MODAL	Mode	1	0.119	8.417	52.884	2796.738
MODAL	Mode	2	0.118	8.457	53.137	2823.564
MODAL	Mode	3	0.089	11.198	70.361	4950.729
MODAL	Mode	4	0.087	11.452	71.953	5177.185
MODAL	Mode	5	0.087	11.509	72.316	5229.581

THANK YOU