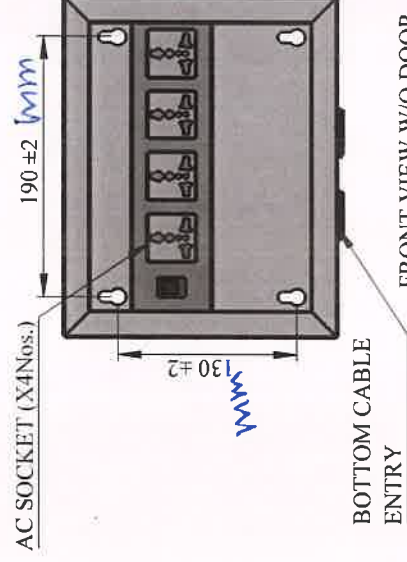
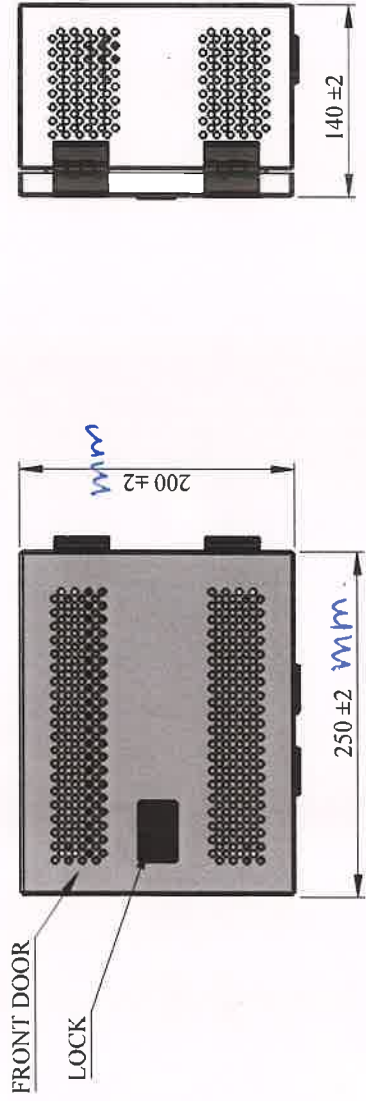


TOP VIEW



ISOMETRIC VIEW



FRONT VIEW

RHS VIEW

NOTE:
1. Surface Protection :- Powder Coated Delta Std.
2. Component Placement might change as per Actual.
3. IP Protection :- IP 20

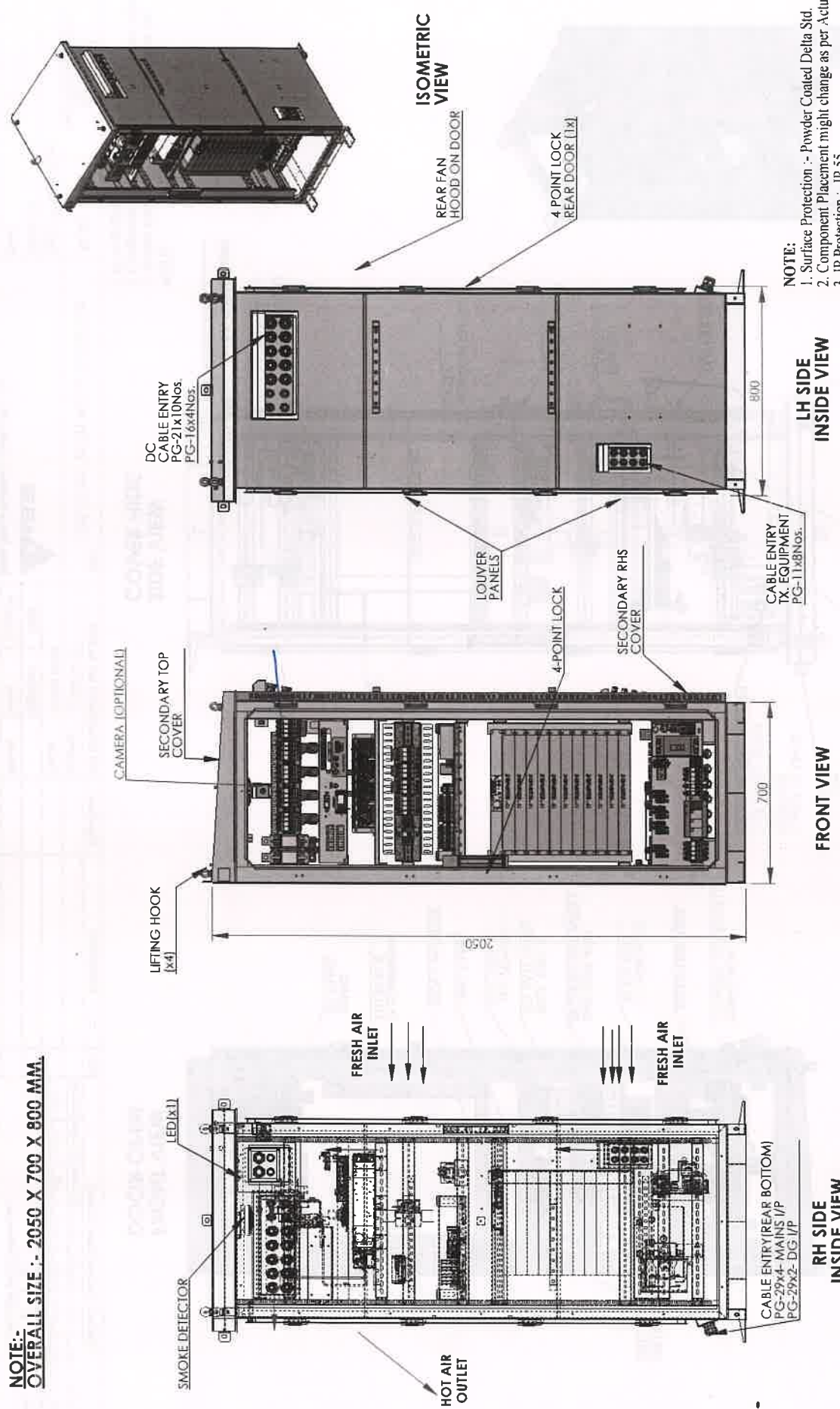
General tolerance chart (in mm)				Rev		Amendment		Sign/Date		All dimensions are in mm		Title		Scale: NTS		THIRD ANGLE PROJECTION	
Length or Dia	0-6	6-30	30-120	120-315	315-1000	1000-2000	2000-2300			Material: AS PER NOTE							
Tolerance	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.5			Finish: AS PER NOTE							
Length or Dia	0-6	6-30	30-120	120-315	315-1000	1000-2000	2000-2300			Drawn	Sudhir	Signature	Date				
Tolerance	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.5			Checked	M N PINTO	Signature	Date				
										Approved	Pankaj C	Signature	Date				

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USED ON:
Sheet: 1 OF 1
Dwg No: DES-08847-GA
Rev

Delta Power Solutions [India] Pvt. Ltd.
Plot No - 43, Sector- 35 HSIDC
Gurgaon - 122 001 (Haryana)

NOTE:-
OVERALL SIZE :- 2050 X 700 X 800 MM.



NOTE:
1. Surface Protection :- Powder Coated Delta Std.
2. Component Placement might change as per Actual.
3. IP Protection :- IP 55

General tolerance chart (in mm)				Rev	Amendment	Sign/Date	All dimensions are in mm				Title		Scale	THIRD ANGLE PROJECTION	
Length in Dia	1/6	6-30	30-120	120-215	215-1000	1000-2000	2000-2300								
Tolerance	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.5								
Length of Dia	1/6-500	500-1000	1000-1500	1500-2000											
Tolerance	±2	±3	±5												

Copyright and Confidential

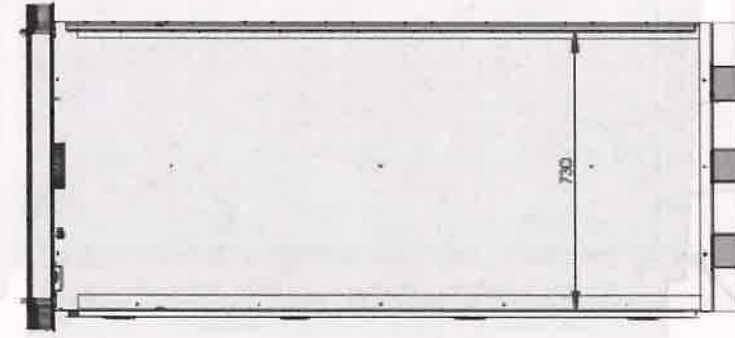
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Approx Weight (Kgs):	
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Sheet:	1 OF 2
Dwg No:	DES-08846-GA
Delta P/N:	

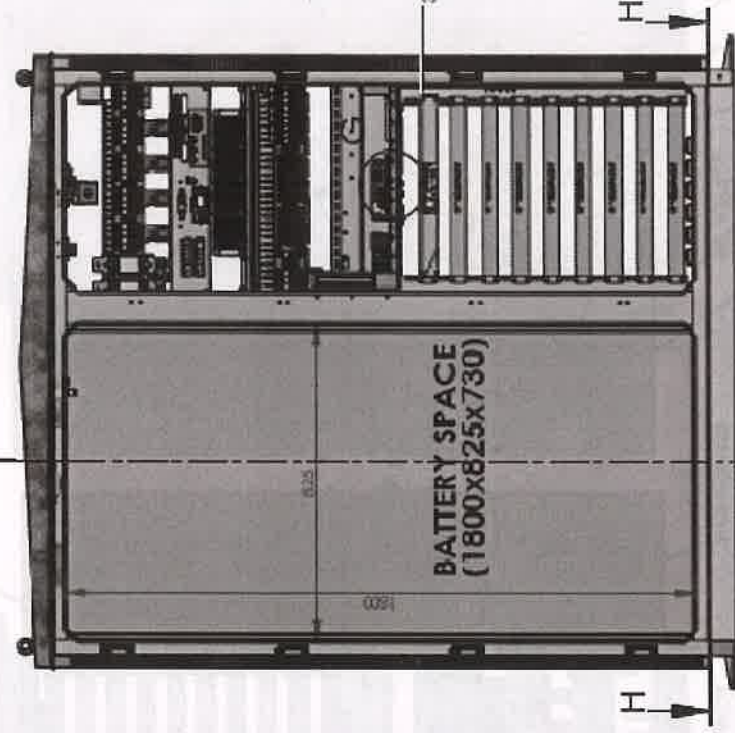
DELTA
Delta Power Solutions (India) Pvt. Ltd
Plot No - 43, Sector- 35 HSIDC
Gurgaon - 122 001 (Haryana)

DOOR OPEN
DOOR HIDE

I



SECTION I-I

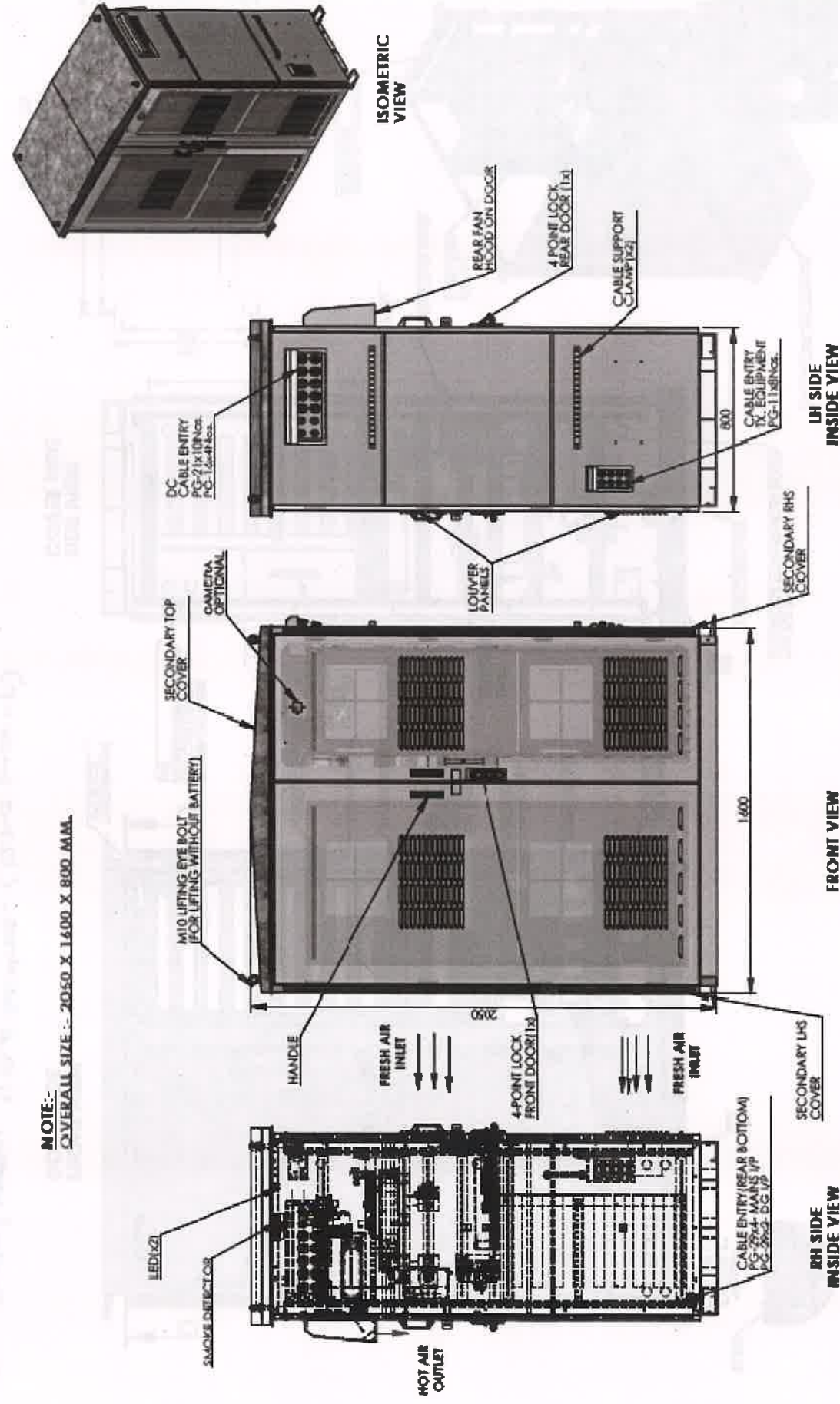


FRONT VIEW
DOOR HIDE

Rev 2

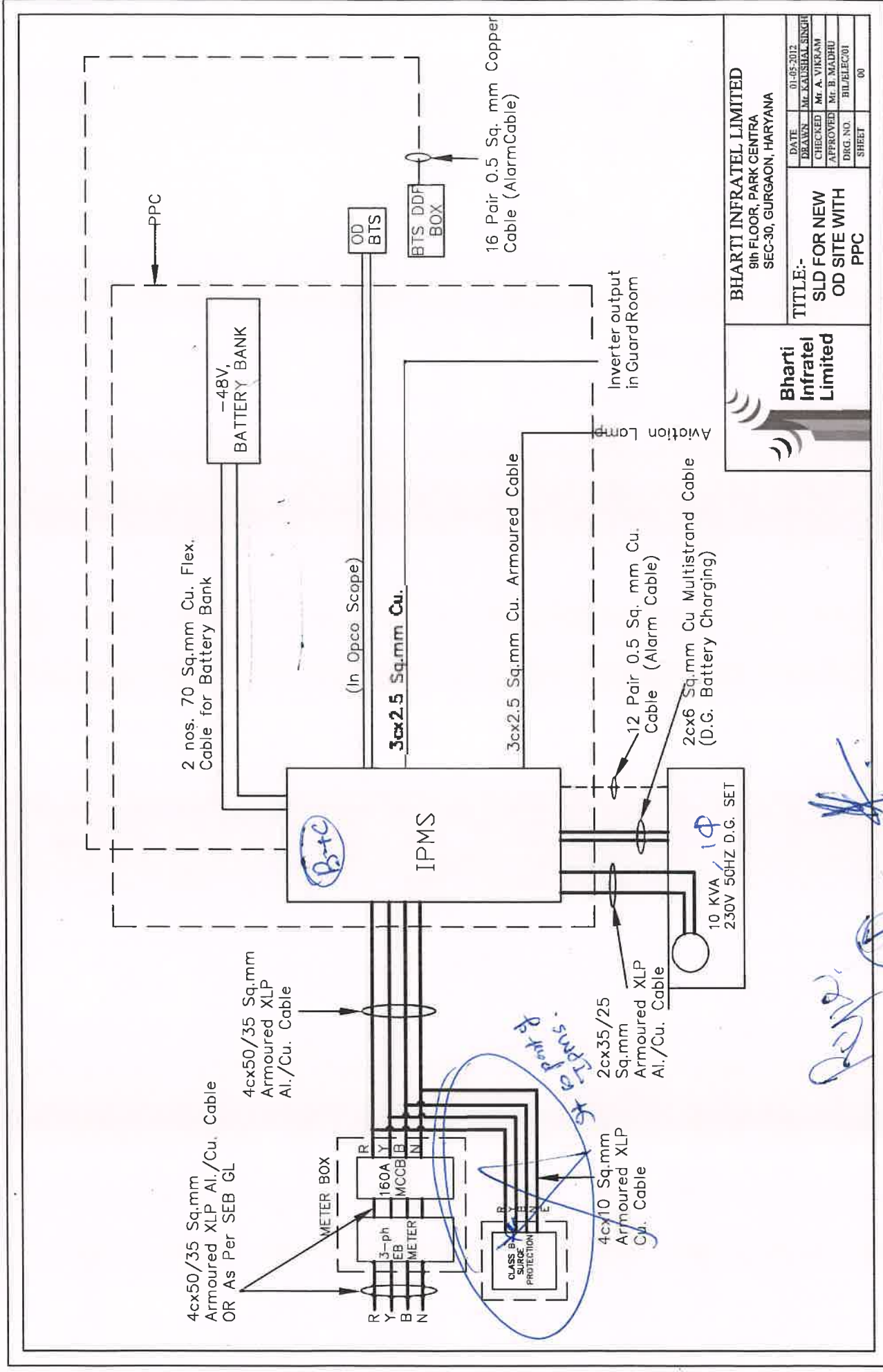
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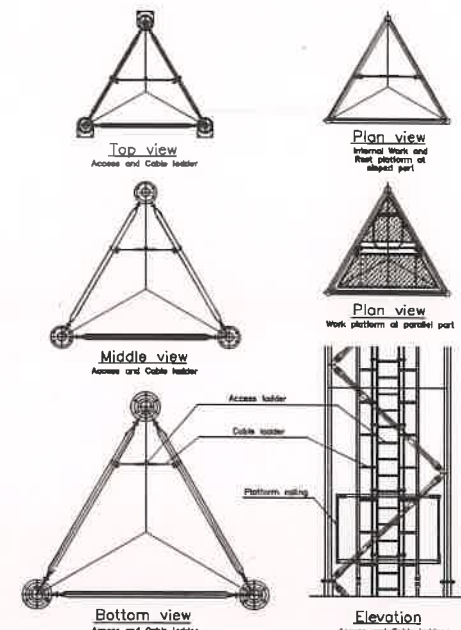
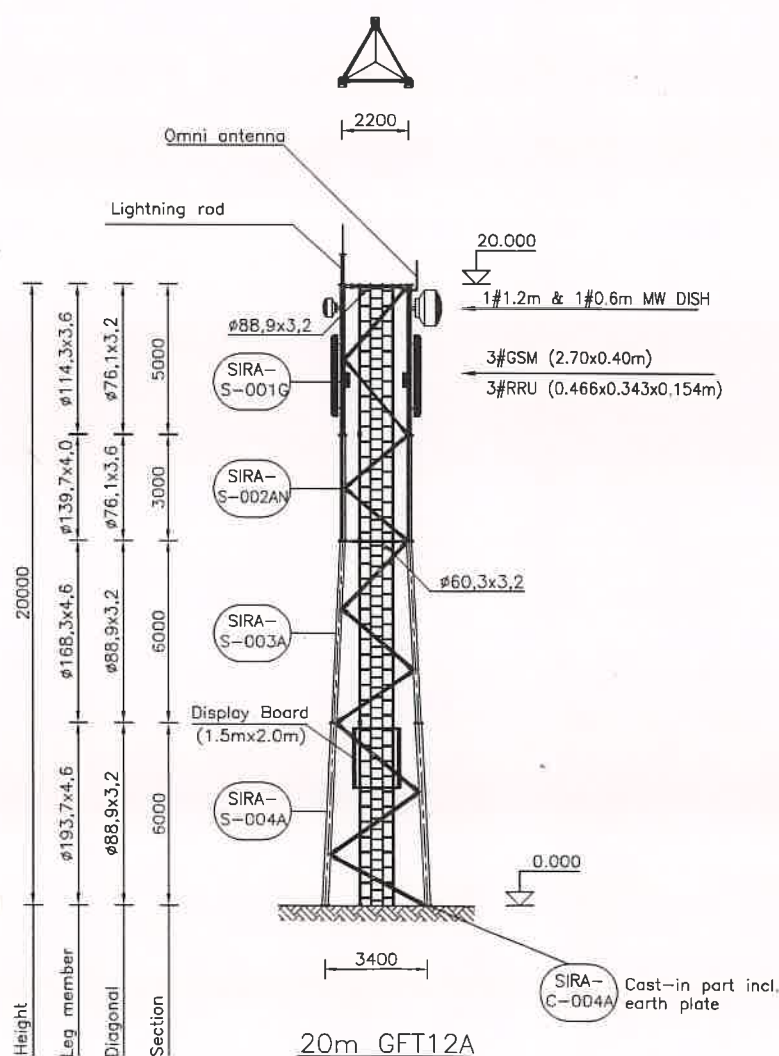
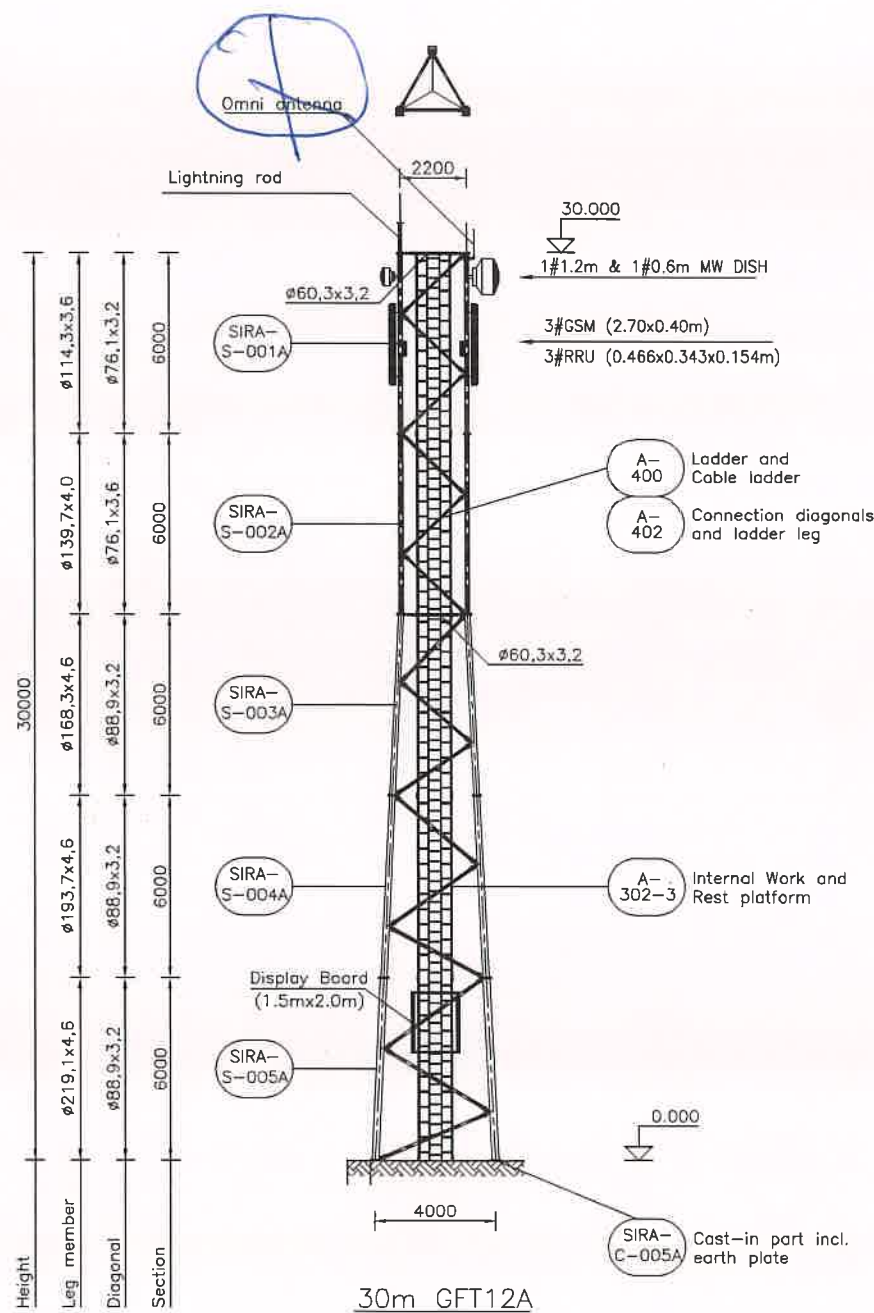
NOTE:
OVERALL SIZE:- 2050 X 1400 X 800 MM.



SPD-Type 1+2

R 15/2





DESIGN DATA

WIND SPEED-180kmph

Antenna details:

Type-1&2 (MW-1T):

- Option-1:
- 3nos. of Radio antenna (2700x400mm)
 - 3nos. of RRU (466x343x154mm)
 - 2nos. of $\phi 0.9$ MW (Solid dish with cylindrical shroud)

- Option-2:
- 3nos. of Radio antenna (2700x400mm)
 - 3nos. of RRU (466x343x154mm)
 - 3nos. of $\phi 0.6$ MW (Solid dish with cylindrical shroud)

- Option-3:
- 3nos. of Radio antenna (2700x400mm)
 - 3nos. of RRU (466x343x154mm)
 - 1no. of $\phi 1.2$ MW (Solid dish with cylindrical shroud)
 - 1no. of $\phi 0.6$ MW (Solid dish with cylindrical shroud)

Resulting in effective area of 6.5sq.m (Max. of above) over top 5m of the tower. (Loads on ladder & Cables Extra)

Accessories:

- 1no. of display board @3m level (1.5x2m)
- 1no. of Omni antenna (3mx0.3m) @ top of the tower.

NOTE:

The tower is designed according to:

- Wind loads : As per IS:875 (Part-3) - 2015
- Design standard : IS:800-2007
- Basic wind Speed : 180kmph (3sec gust)
- Operational wind Speed : 126kmph (3sec gust)
- Mean probable design life : 50 years
- Terrain Category : 2
- Topography factor, k_3 : 1.36
- Importance factor for cyclonic region, k_4 : 1.0 (For general structures)
- Wind directionality factor, k_d : 1.0
- Area averaging factor, k_a : 1.0
- Combination factor, k_c : 1.0
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality Yst-310 grade conforming to IS: 1161-2003/Equivalent ASTM.

Bolts are of Grade 8.8 conforming to IS:4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts.

All structural steel is hot-dip galvanized conforming to IS:4759/Equivalent Indian standards.

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2018-05-10 MK KV KV

Project no. 18RIT-50 Scale: NTS

Ramboll
Greenfield Tower

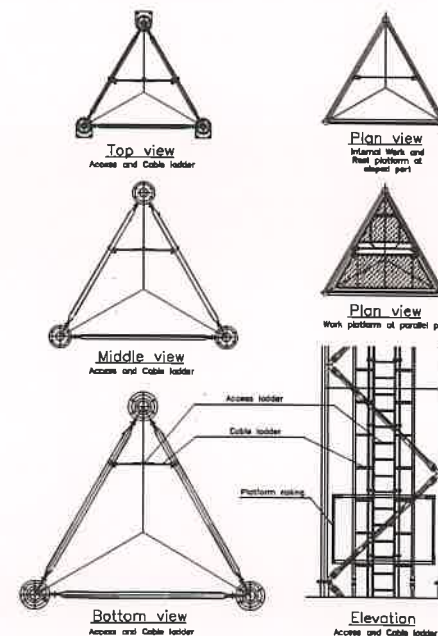
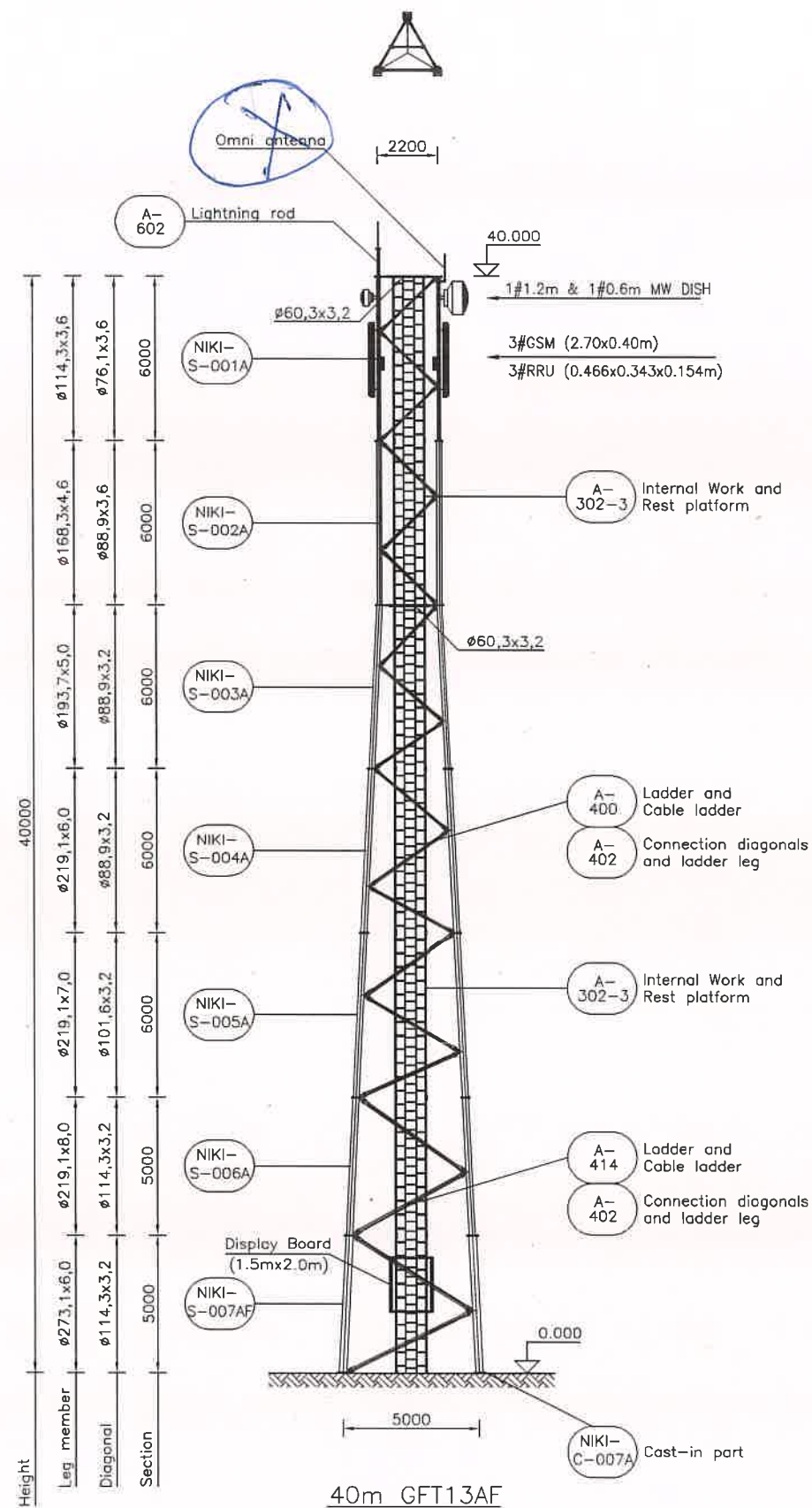
30m & 20m Greenfield Tower (MW-1T loading)
Layout for GFT12A @ 180kmph

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DESIGN DATA

WIND SPEED-180kmph

Antenna details:

Type-3 (MW-1T):

- Option-1:
- 3nos. of Radio antenna (2700x400mm)
 - 3nos. of RRU (466x343x154mm)
 - 2nos. of Ø0.9m MW (Solid dish with cylindrical shroud)
- Option-2:
- 3nos. of Radio antenna (2700x400mm)
 - 3nos. of RRU (466x343x154mm)
 - 3nos. of Ø0.6m MW (Solid dish with cylindrical shroud)
- Option-3:
- 3nos. of Radio antenna (2700x400mm)
 - 3nos. of RRU (466x343x154mm)
 - 1no. of Ø1.2m MW (Solid dish with cylindrical shroud)
 - 1no. of Ø0.6m MW (Solid dish with cylindrical shroud)

Resulting in effective area of 6.5sq.m (Max. of above) over top 5m of the tower. (Loads on ladder & Cables Extra)

Accessories:

- 1no. of display board @3m level (1.5x2m)
- 1no. of Omni antenna(3mxØ0.3m) @ top of the tower.

NOTE:

The tower is designed according to:

- Wind loads : As per IS:875 (Part-3) - 2015
- Design standard : IS:800-2007
- Basic wind Speed : 180kmph (3sec gust)
- Operational wind Speed : 126kmph (3sec gust)
- Mean probable design life : 50 years
- Terrain Category : 2
- Topography factor, k_3 : 1.36
- Importance factor for cyclonic region, k_4 : 1.0 (For general structures)
- Wind directionality factor, k_d : 1.0
- Area averaging factor, k_a : 1.0
- Combination factor, k_c : 1.0
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality Yst-310 grade conforming to IS: 1161-2003/Equivalent ASTM.

Bolts are of Grade 8.8 conforming to IS:4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts.

All structural steel is hot-dip galvanized conforming to IS:4759/Equivalent Indian standards.

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Project no. 18RIT-50 Scale : NTS

Rambøll
Greenfield Tower

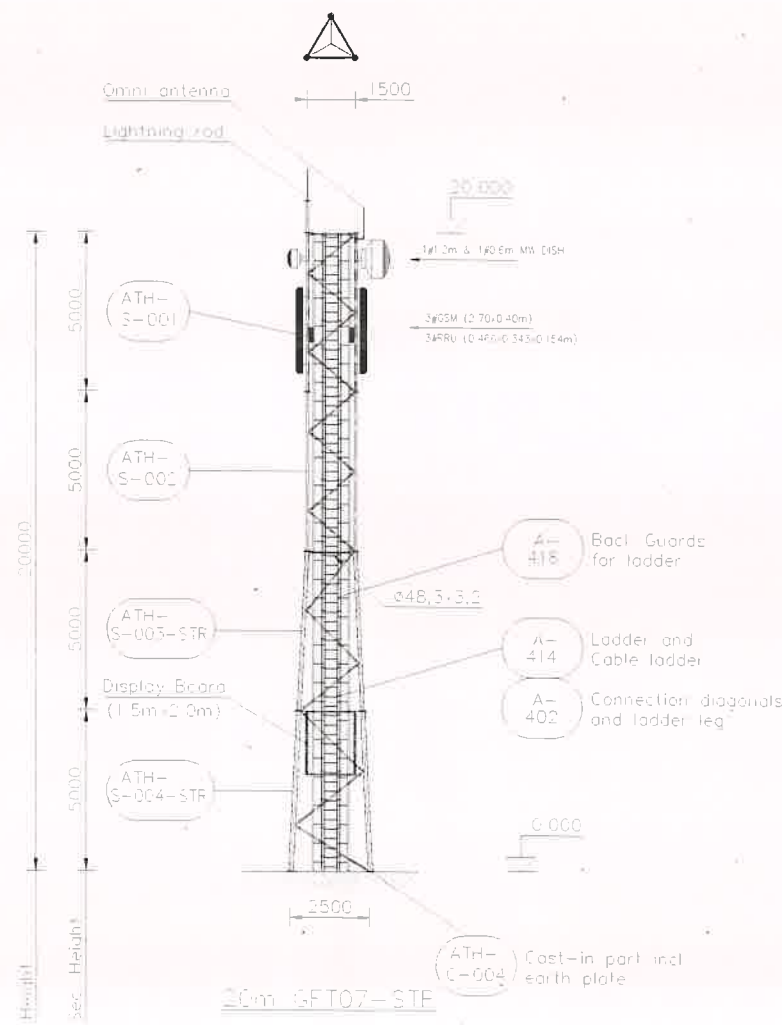
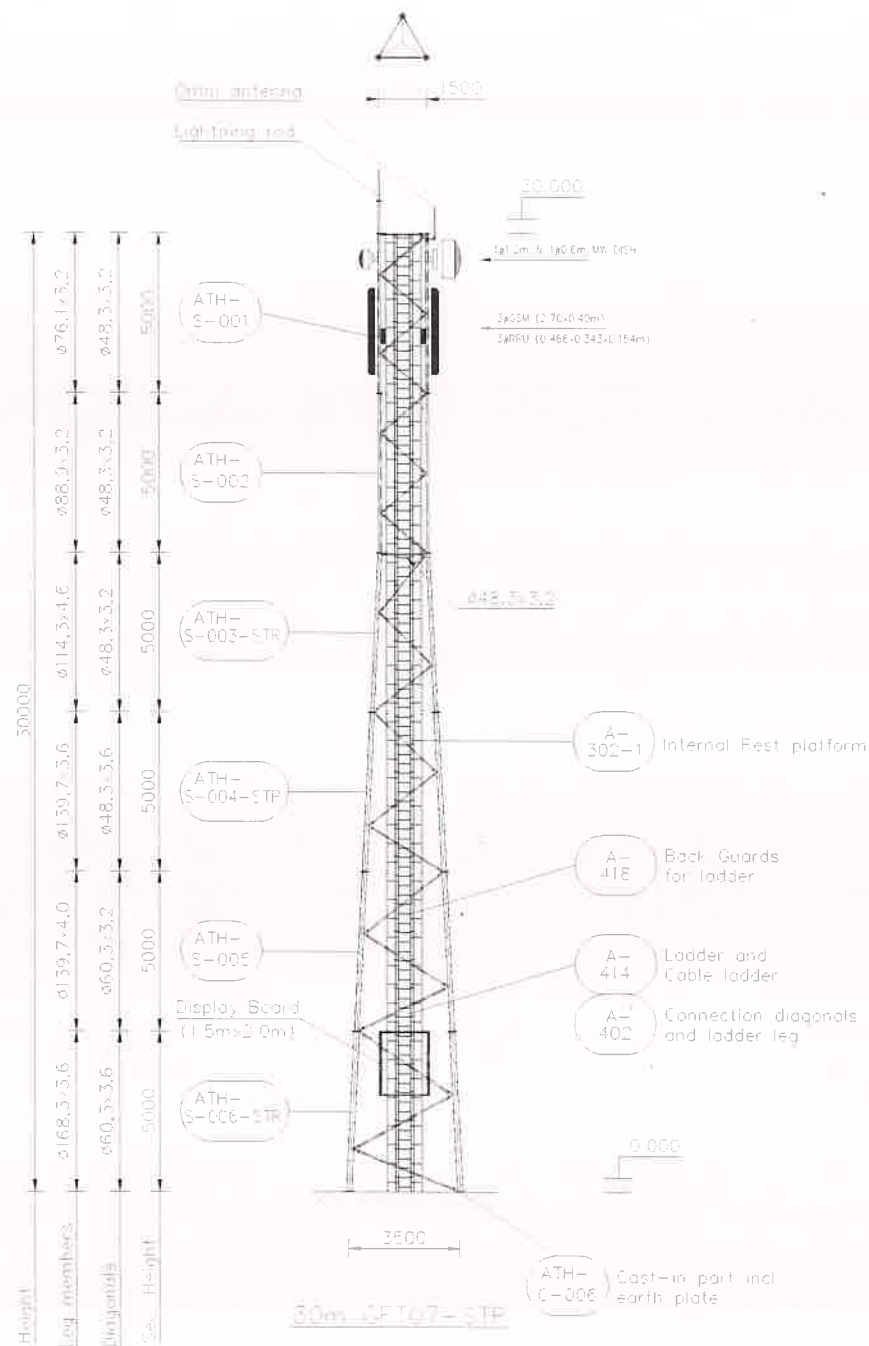
40m Greenfield Tower (MW-1T loading)
Layout for GFT13AF @ 180kmph

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DESIGN DATA

WIND SPEED - 180kmph

Refering details

Total effective area of 6.5sqm over top 5m of the tower
(2m x 3m square & 0.5m x 1m)

Accessories

- Two of display board @ 5m level (1.5 x 2m)
- Two of Omni antenna @ top of the tower

NOTE

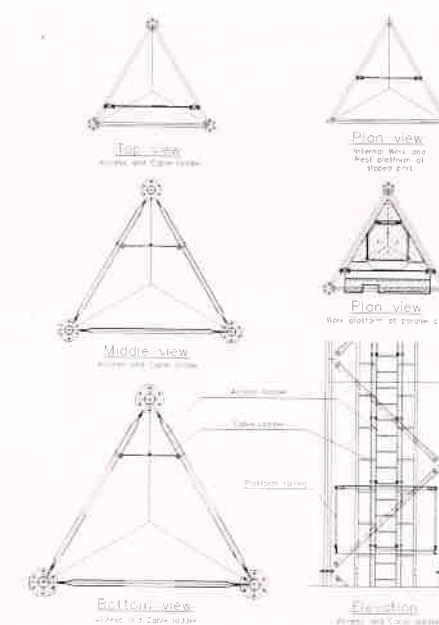
The tower is designed according to

- Wind loads: As per IS 875 (Part-3) - 2015
- Design standard: IS 800-2007
- Basic wind Speed: 180kmph (3sec gust)
- Operational wind Speed: 126kmph (3sec gust)
- Mean probable design life: 50 years
- Terrain Category: 2
- Topography factor: 1.3 : 1 (Flat terrain)
- Importance factor for cyclonic region: 1.4 : 1.0
- Wind directionality factor: 1.0
- Area averaging factor: 1.0
- Combination factor: 1.0
- Interference factor: Not applicable
- Factor of safety: 1.5
- Twist & sway limits: ± 0.5 deg at operational wind speed

Tubes are of quality rst-310 grade conforming to IS 1161-2003/Equivalent ASTM

Bolts are of Grade 8.8 conforming to IS:4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts

All structural steel is hot-dip galvanized conforming to IS 4759/Equivalent Indian standards



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Project no. 18RIT-50 Scale: NTS

Rambøll
Greenfield Tower

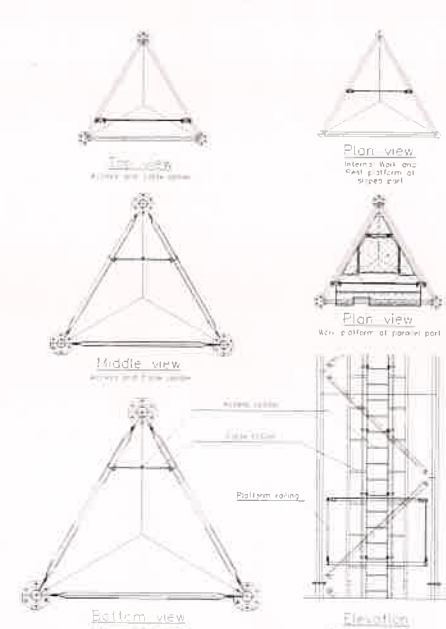
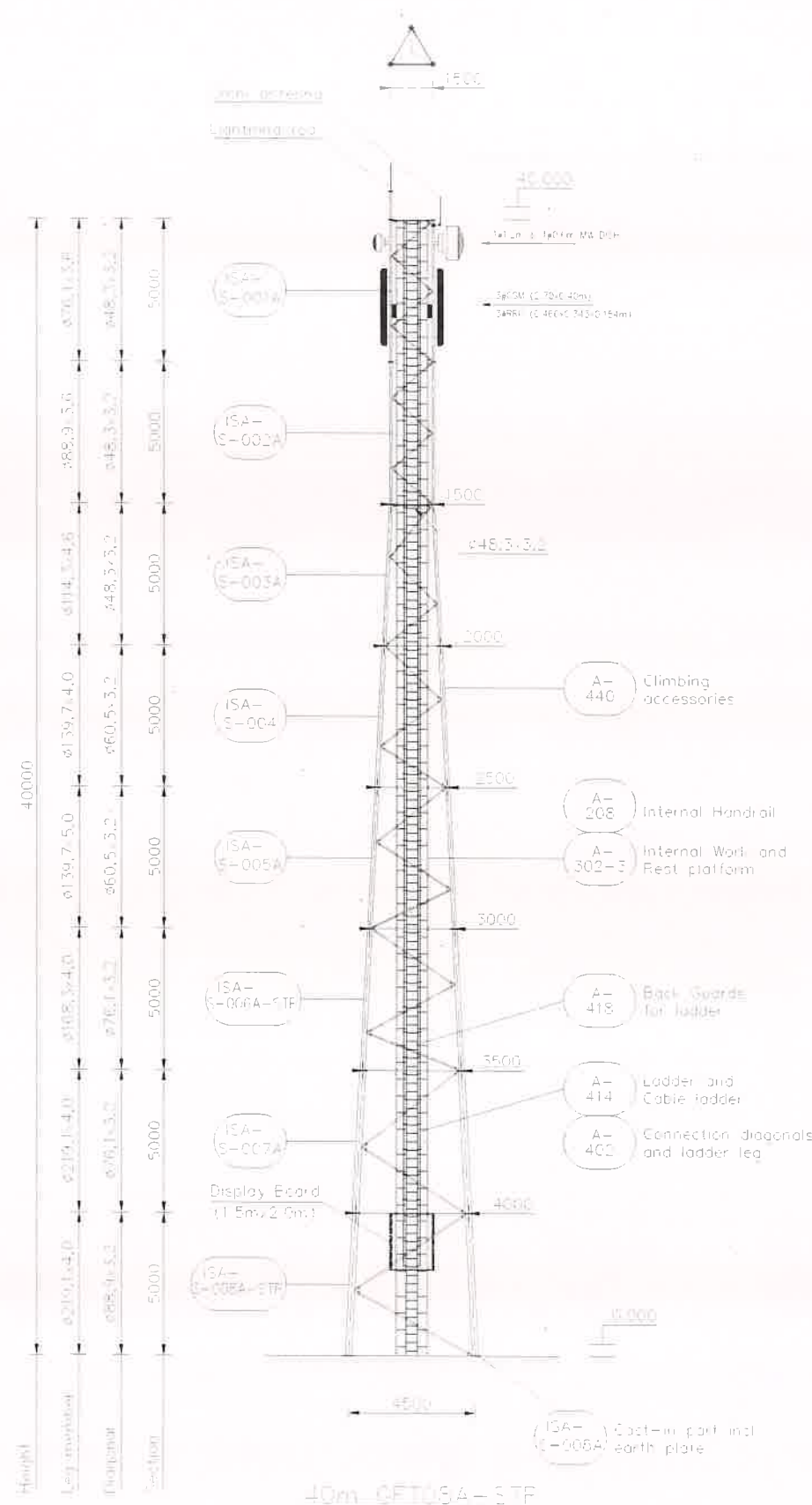
30m & 20m Greenfield Tower (MW-1T loading)
Layout for GFT07-STR @ 180kmph

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SECTION 1.47A

WIND LOADS - Example

Antenna details

Total effective area of 0.5sqm over top. Shallow the tower ladders or ladder & ladders being

Accessories

- Ins. of display board (0.5m level) (1.5x2m)
- Ins. of 0.5m antenna (top of the tower)

NOTE

The tower is designed according to

- Wind loads: As per IS 875 (Part-3) - 2015
- Design standard: IS 800-2007
- Basic wind speed: 180kmph (3sec gust)
- Operational wind speed: 126kmph (3sec gust)
- Mean probable design life: 50 years
- Terrain Category: 2
- Topography factor, k_3 : 1 (Flat terrain)
- Importance factor for cyclonic region, I_4 : 1.0
- Wind directionality factor, I_d : 1.0
- Area averaging factor, I_a : 1.0
- Combination factor, I_c : 1.0
- Interference factor: Not applicable
- Factor of safety: 1.5
- Twist & sway limits: ± 0.5 deg at operational wind speed

Tubes are of quality 1st-310 grade conforming to IS: 1161-2003/Equivalent ASTM

Bolts are of Grade 8.8 conforming to IS: 4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts

All structural steel is hot-dip galvanized conforming to IS 4759/Equivalent Indian standards.

V3=1

Original paper size A2

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Project no. 18RIT-50 Scale: NTS

Rambøll
Greenfield Tower

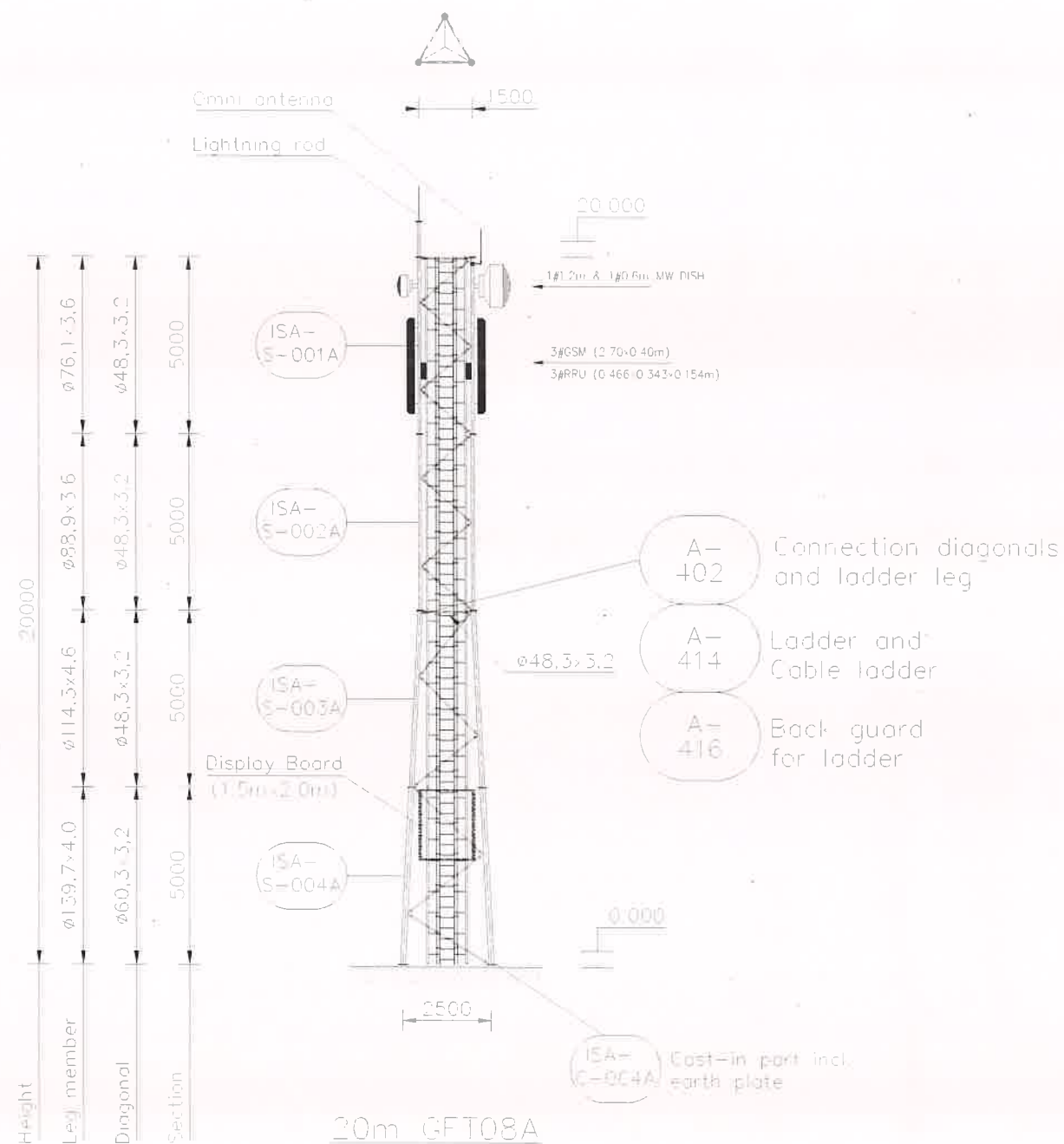
40m Greenfield Tower (MW-1T loading)
Layout for GFT08A-STR @ 180kmph

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Rupe



DESIGN DATA

WIND SPEED - 100 kmph

Antenna height

Total effective area of 0.5sqm over top 5m of the tower
(Loads on ladder & Cable Extra)

Accessories

- Incl. of display board @3m level (1.5x2m)
- Incl. of Omni antenna @top of the tower

NOTE

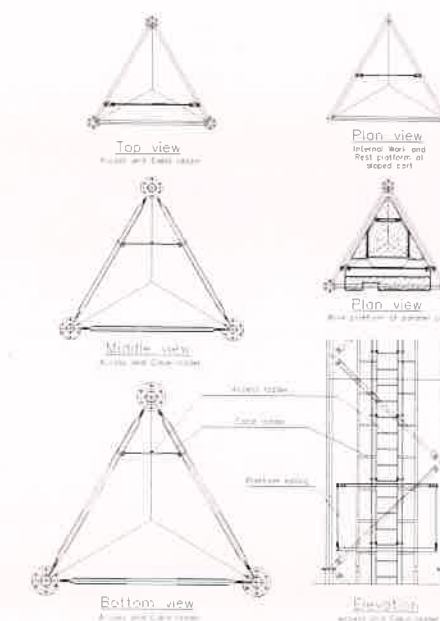
The tower is designed according to

- Wind loads : As per IS 875 (Part-3) - 2015
- Design standard : IS:800-2007
- Basic wind Speed : 100 mph (3sec gust)
- Operational wind Speed : 100 mph (3sec gust)
- Mean probable design life : 50 years
- Terrain Category : 1 (Flat terrain)
- Topography factor, $Z_s = 1$ (Flat terrain)
- Importance factor for system region, $I_s : 1.0$
- Wind directionality factor, $I_d : 1.0$
- Area averaging factor, $I_a : 1.0$
- Combination factor, $k_c : 1.0$
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality Yst-310 grade conforming to IS: 1161-2003/Equivalent ASTM.

Bolts are of Grade 8.8 conforming to IS: 4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts.

All structural steel is hot-dip galvanized conforming to IS: 4759/Equivalent Indian standards.



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Project no. 18RIT-50 Scale : NTS

Rambøll
Greenfield Tower

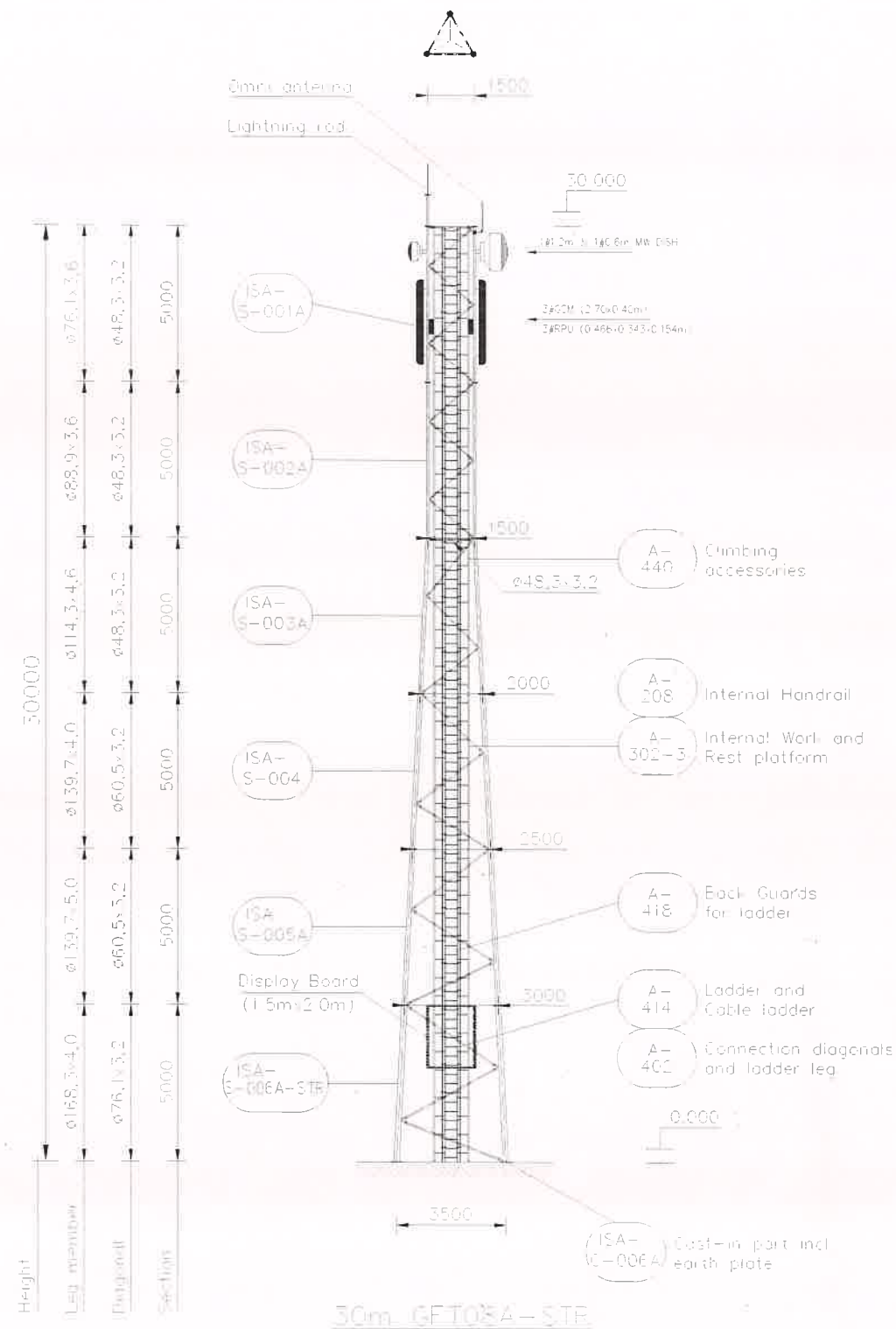
20m Greenfield Tower (MW-1T loading)
Layout for GFT08A @ 200kmph

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GFT-X-020



DESIGN DATA

Wind Speed-200kmph

Antenna details

Total effective area of 6.5sqm over top 5m of the tower
(L and W loader & Cables etc.)

Accessories

- 1 no. of display board @5m level (1.5x2m)
- 1 no. of Omnis antenna @top of the tower

NOTE

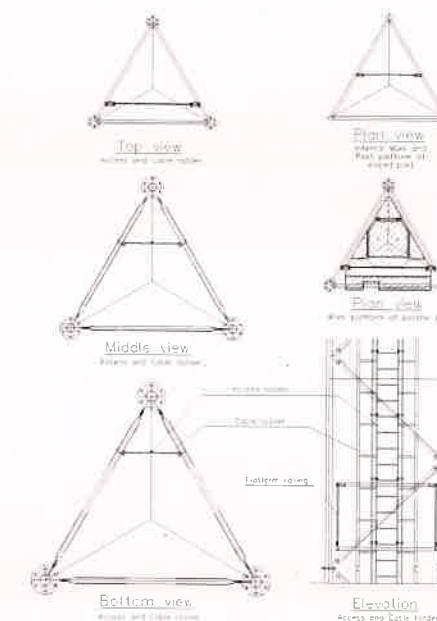
The tower is designed according to

- Wind loads : As per IS 875 (Part-3) - 2015
- Design standard : IS 800-2007
- Basic wind Speed, 200kmph (3sec gust)
- Operational wind Speed 140kmph (3sec gust)
- Mean probable design life 50 years
- Terrain Category : 2
- Topography factor, $z_s = 1$ (Flat terrain)
- Importance factor for cyclonic region, $I_4 = 1.0$
- Wind directionality factor, $I_d = 1.0$
- Area averaging factor, $I_a = 1.0$
- Combination factor, $k_c = 1.0$
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality Yst-310 grade conforming to IS: 1161-2003/Equivalent ASTM

Bolts are of Grade 8.8 conforming to IS:4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts

All structural steel is hot-dip galvanized conforming to IS:4759/Equivalent Indian standards



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Project no. 18RIT-50 Scale : NTS

Rambøll
Greenfield Tower

30m Greenfield Tower (MW-1T loading)
Layout for GFT08A-STR @ 200kmph

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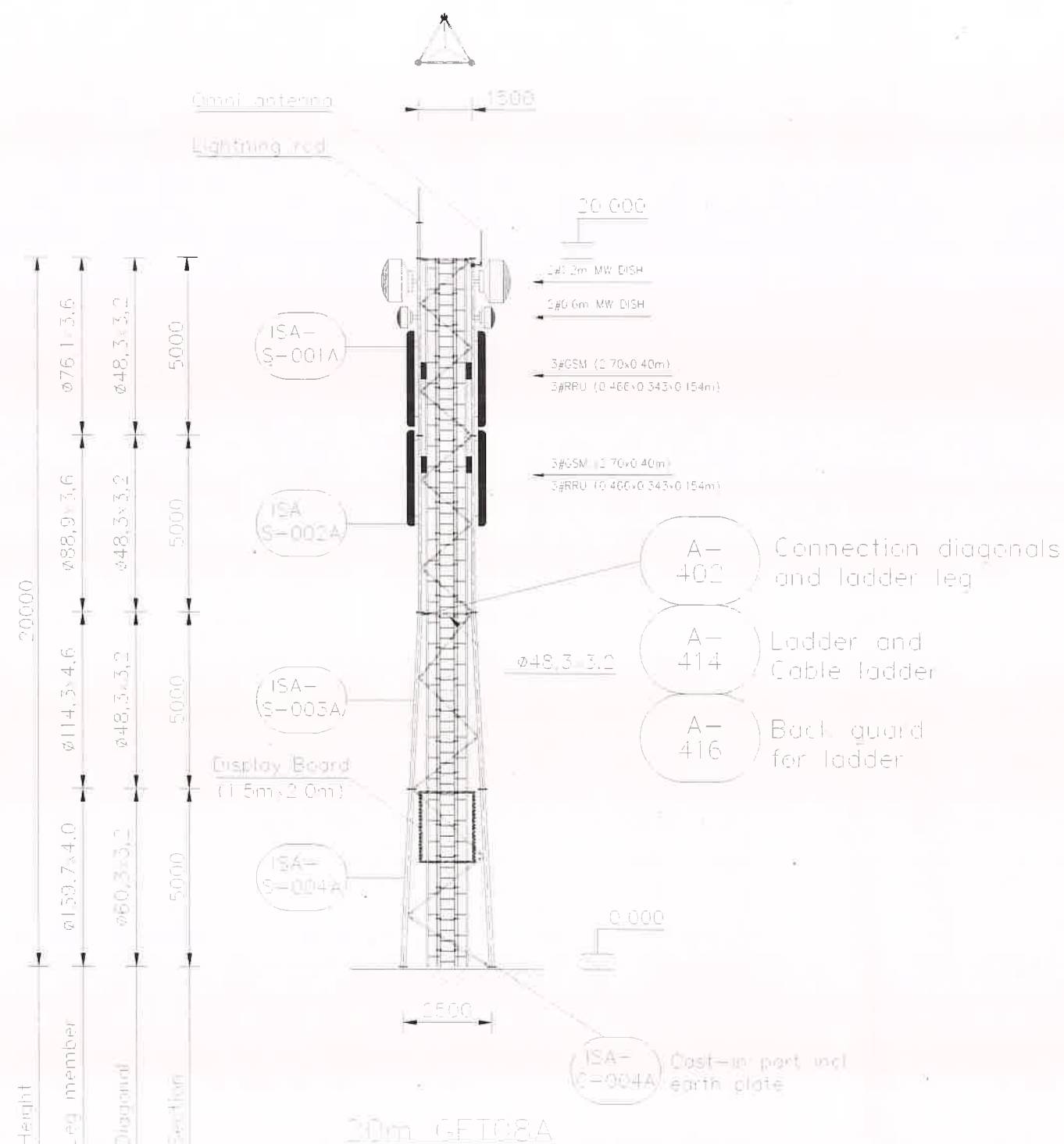
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GFT-X-030



GFT-X-040



DESIGN DATA

WIND SPEED-180kmph

Antenna details

Total effective area of 10.5sqm over top 11.5m high tower (Ladder, Antenna & Cable E tray)

Antennae

- Incl. of display board @3m level (1.5x2m)
- Incl. of Omni antenna @top of the tower

NOTE

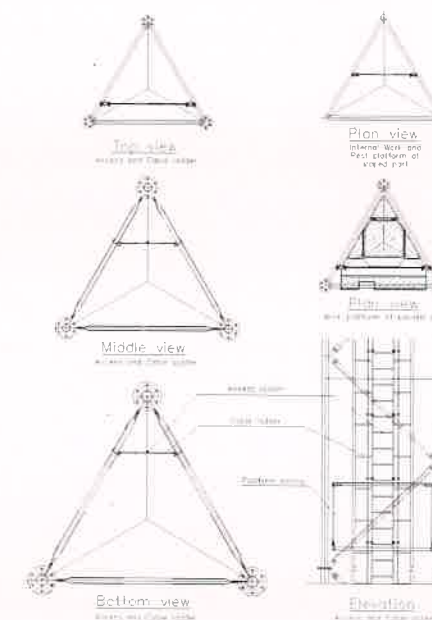
The tower is designed according to:

- Wind loads : As per IS 875 (Part-3) - 2015
- Design standard : IS 800-2007
- Basic wind Speed : 180kmph (3sec gust)
- Operational wind Speed : 126kmph (3sec gust)
- Mean probable design life : 50 years
- Terrain Category : 2
- Topography factor, $k_3 = 1$ (Flat terrain)
- Importance factor for cyclonic region, $k_4 = 1.0$
- Wind directionality factor, $k_d = 1.0$
- Area averaging factor, $k_a = 1.0$
- Combination factor, $k_c = 1.0$
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality 1st-310 grade conforming to IS: 1161-2003/Equivalent ASTM

Bolts are of Grade 8.8 conforming to IS 4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts

All structural steel is hot-dip galvanized conforming to IS 4759/Equivalent Indian standards



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Project no. 18RIT-50 Scale: NTS

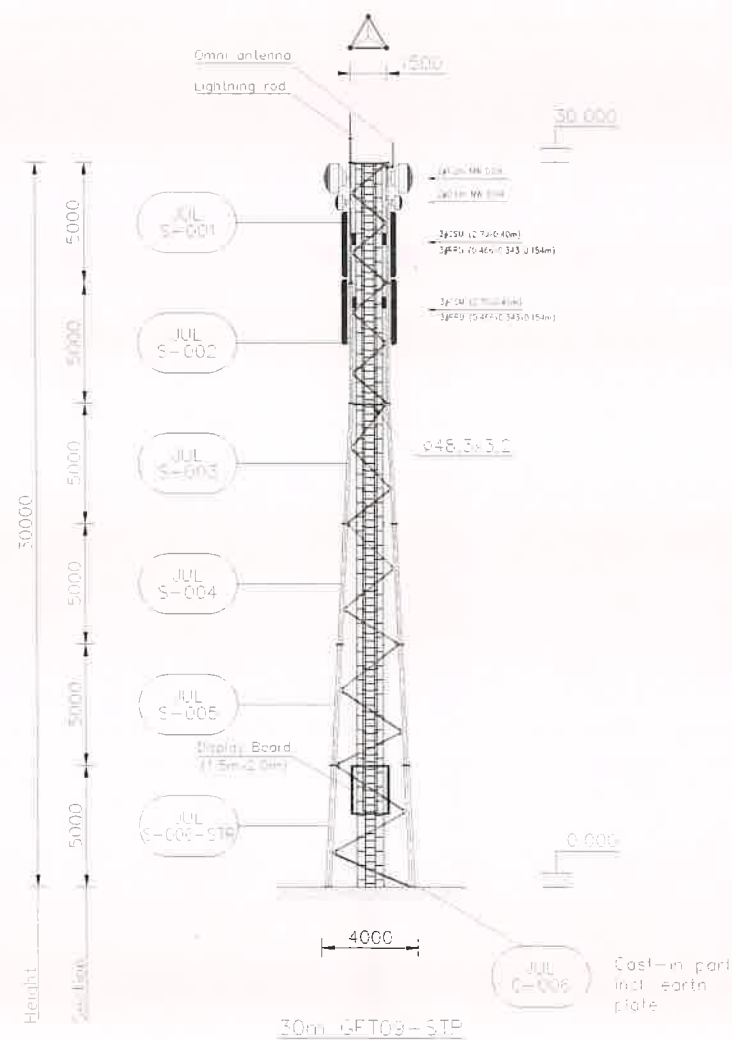
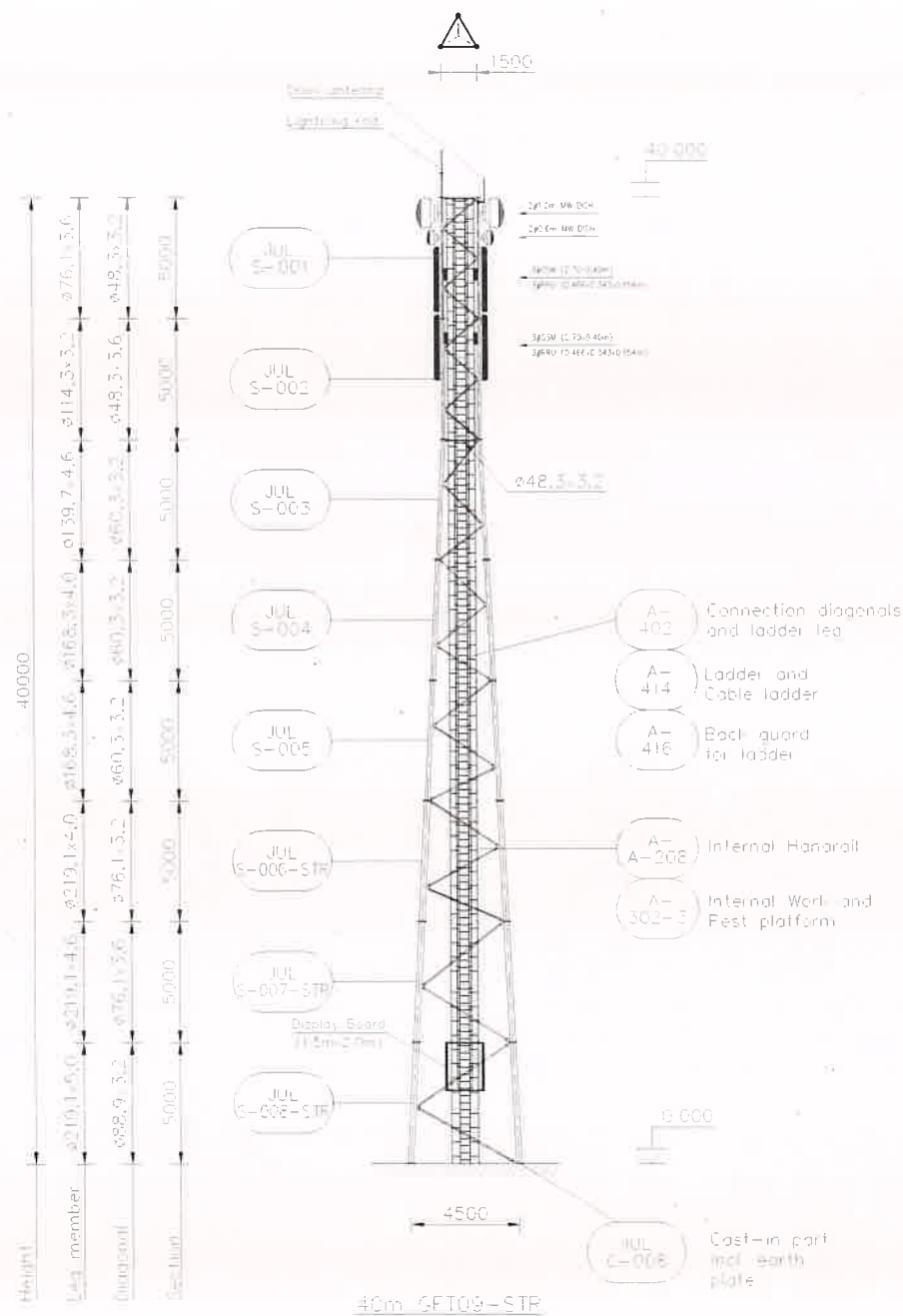
Rambøll
Greenfield Tower

20m Greenfield Tower (VSAT-1T/MW-2T loading)
Layout for GFT08A @ 180kmph

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DESIGN DATA

Wind Speed: 180kmph

Exposure: Category 2

Total effective area of 10.5sqm over top 7.5m of the tower
 (Cable ladder & Cable S 1m)

Accessories

- 1 no. of display board @ 5m level (1.5m)
- 1 no. of Omni antenna @ top of the tower

NOTE

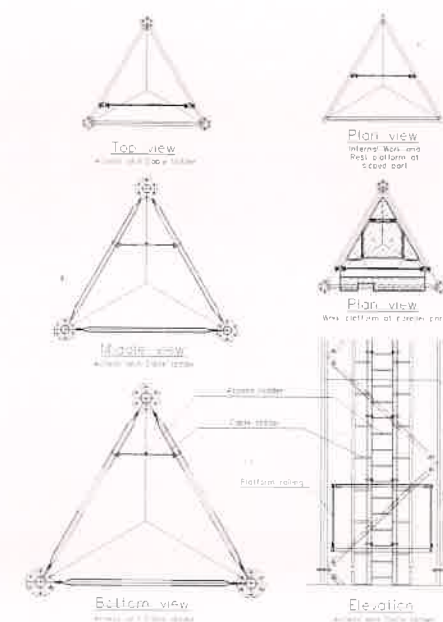
The tower is designed according to:

- Wind loads: As per IS 875 (Part-3) - 2015
- Design standard: IS 800-2007
- Basic wind Speed: 180kmph (3sec gust)
- Operational wind Speed: 126kmph (3sec gust)
- Mean probable design life: 50 years
- Terrain Category: 2
- Topography factor: 1.3 (Flat terrain)
- Importance factor for cyclonic region: 1.4 (1.0)
- Wind directionality factor: 1.0
- Area averaging factor: 1.0
- Combination factor: 1.0
- Interference factor: Not applicable
- Factor of safety: 1.5
- Twist & sway limits: ± 0.5 deg at operational wind speed

Tubes are of quality 1st-310 grade conforming to IS 1161-2003/Equivalent ASTM

Bolts are of Grade 8.8 conforming to IS 4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts

All structural steel is hot-dip galvanized conforming to IS 4759/Equivalent Indian standards



Original paper size: A2

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Rev. Date Signature Checked Approved
 2018-04-20 MHK KV KV

Project no. 18RIT-50 Scale: NTS

Ramboll
 Greenfield Tower

40m & 30m Greenfield Tower (VSA-1T/MW-2T loading)
 Layout for GFT09-STR @ 180kmph

RAMBOLL

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 SLN Terminus, Survey #133
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 Fax +91 40 4032 2003
 www.ramboll.in

Drawing no. Rev.
 GFT-X-040

DESIGN DATA

WIND SPEED-180kmph

Antenna details:

Total effective area of 10.5sq.m over top 7.5m of the tower.
(Loads on ladder & Cables Extra)

Accessories:

- 1no. of display board @3m level (1.5x2m)
- 1no. of Omni antenna @top of the tower.

NOTE:

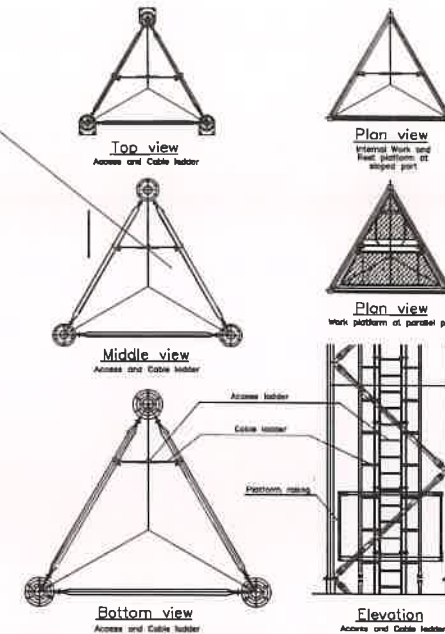
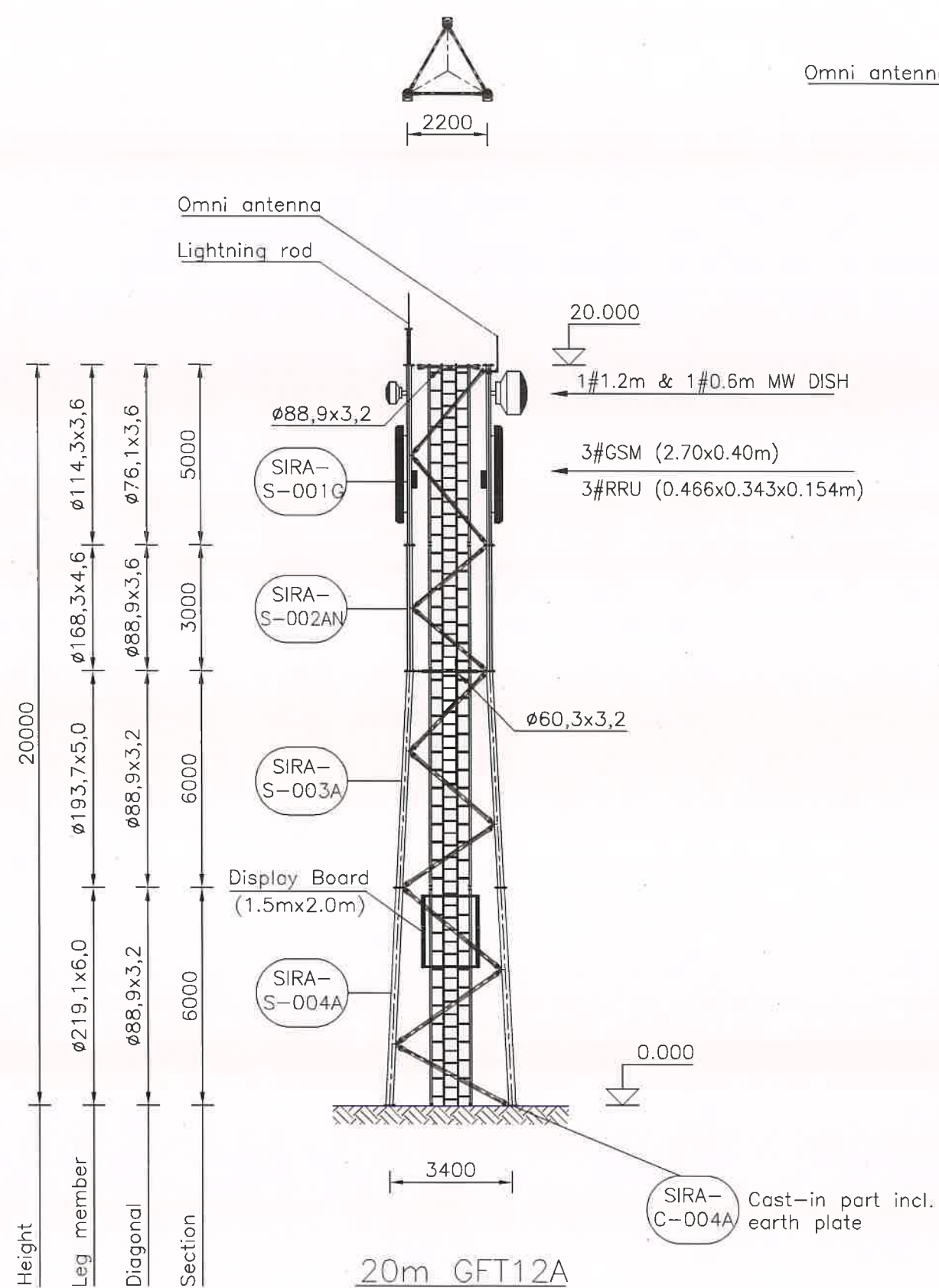
The tower is designed according to:

- Wind loads : As per IS:875 (Part-3) - 2015
- Design standard : IS:800-2007
- Basic wind Speed : 180kmph (3sec gust)
- Operational wind Speed : 126kmph (3sec gust)
- Mean probable design life : 50 years
- Terrain Category : 2
- Topography factor, k_3 : 1 (Flat terrain)
- Importance factor for cyclonic region, k_4 : 1.0
- Wind directionality factor, k_d : 1.0
- Area averaging factor, k_a : 1.0
- Combination factor, k_c : 1.0
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality Yst-310 grade conforming to IS: 1161-2003/Equivalent ASTM.

Bolts are of Grade 8.8 conforming to IS:4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts.

All structural steel is hot-dip galvanized conforming to IS:4759/Equivalent Indian standards.



$K_3 = 1.36$

Original paper size A2

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Rev.	Date	Signature	Checked	Approved
	2018-05-10	MK	KV	KV

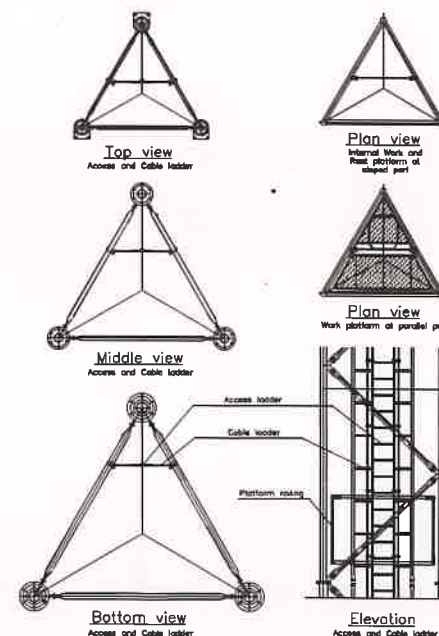
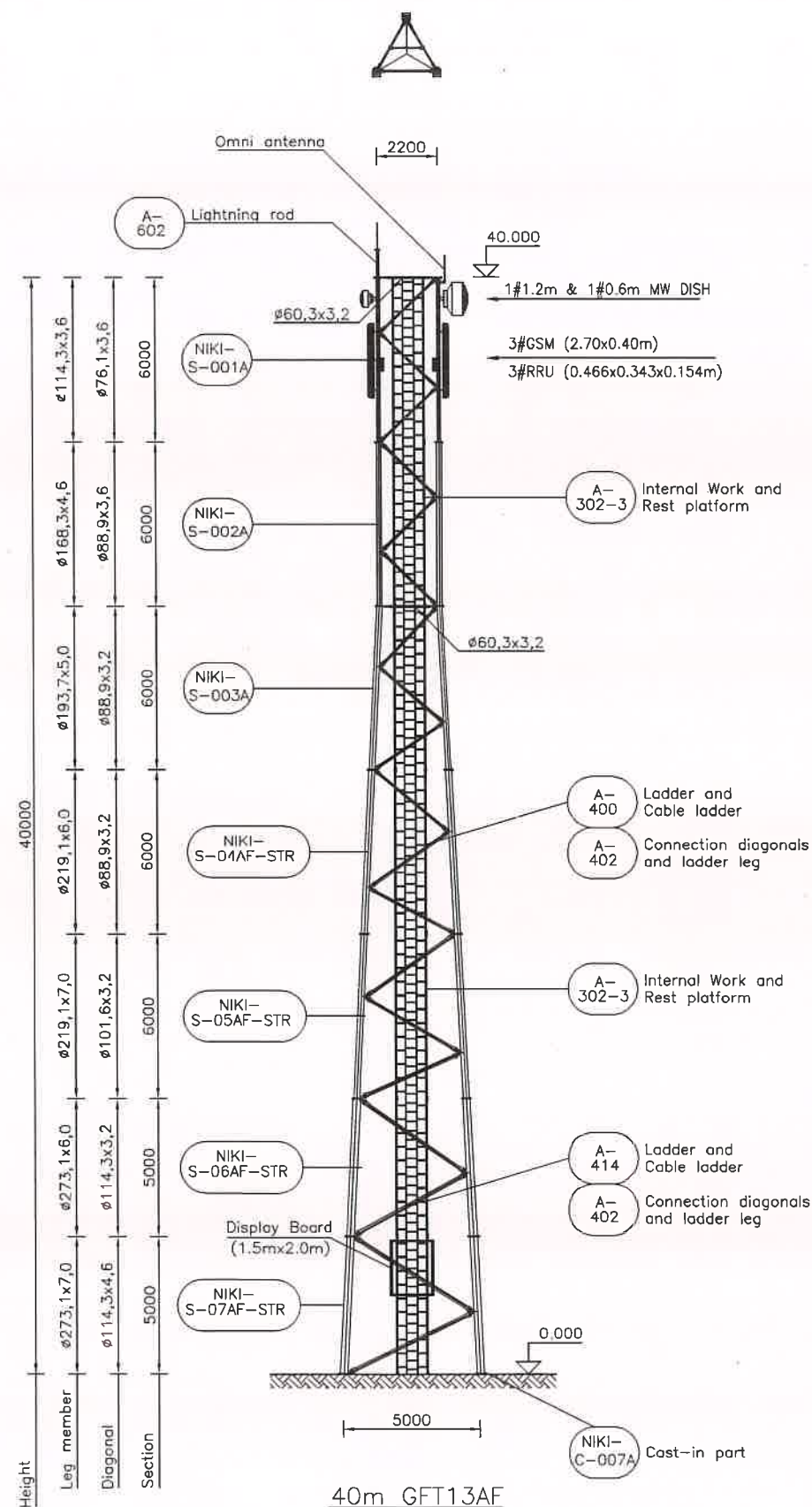
Project no. 18RIT-50 Scale: NTS

Ramboll
Greenfield Tower

20m Greenfield Tower (MW-2T & VSAT-1T loading)
Layout for GFT12A @ 180kmph

RAMBOLL
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Drawing no. Rev.
GFT-X-020



DESIGN DATA

WIND SPEED-180kmph

Antenna details:

Total effective area of 10.5sq.m over top 7.5m of the tower.
(Loads on ladder & Cables Extra)

Accessories:

- 1no. of display board @3m level (1.5x2m)
- 1no. of Omni antenna @top of the tower.

NOTE:

The tower is designed according to:

- Wind loads : As per IS:875 (Part-3) - 2015
- Design standard : IS:800-2007
- Basic wind Speed : 180kmph (3sec gust)
- Operational wind Speed : 126kmph (3sec gust)
- Mean probable design life : 50 years
- Terrain Category : 2
- Topography factor, k_3 : 1.36 (Flat terrain)
- Importance factor for cyclonic region, k_4 : 1.0
- Wind directionality factor, k_d : 1.0
- Area averaging factor, k_a : 1.0
- Combination factor, k_c : 1.0
- Interference factor : Not applicable
- Factor of safety : 1.5
- Twist & sway limits : ± 0.5 deg at operational wind speed

Tubes are of quality Yst-310 grade conforming to IS: 1161-2003/Equivalent ASTM.

Bolts are of Grade 8.8 conforming to IS:4000-1992/Equivalent ASTM. All bolts are hexagon head bolts, screws and nuts.

All structural steel is hot-dip galvanized conforming to IS:4759/Equivalent Indian standards.

Original paper size A2

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Rev.	Date	Signature	Checked	Approved
	2018-05-10	MK	KV	KV

Project no. 18RIT-50 Scale : NTS

Ramboll
Greenfield Tower

40m Greenfield Tower (MW-2T & VSAT-1T loading)
Layout for GFT13AF-STR @ 180kmph

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Drawing no. Rev.

GFT-X-040

