

ADDENDUM

SCOPE OF WORK

- The contractor shall be responsible for construction and installation of 30 (m) Guyed-Mast towers with all equipment, tools, supervision, management, and other incidentals necessary to meet the requirements.
- The contractor shall complete the civil works to construct standard ODU Pad foundation and shelter for placement of LTE-A Cabinets with all civil material necessary in this regard. The ODU pad will be constructed next to the base of the tower. The dimensions are approximately **(5.5 ft X 6.5 ft X 8in)**.
- Contractor shall be responsible to dismantle and reinstall eNodeB & other related equipment, which includes MCCB / Power distribution system and ODU PAD Shelter at designated locations.
- The contractor shall be responsible for any physical damages caused to the equipment.
- Customized Wall Mounted Front services out door ACDB will be required to interconnect each LTE-A site with associated energy meter.
- All dismantled equipment shall be enlisted and verified by PSCA personnel.
- Proper cable routing, insulation and housing needs to be ensured by using steel spiral pipes.

TECHNICAL SUMMARY OF 30M (100FT) TRIANGULAR LATTICE GUYED STEEL TOWER

- a) Triangular Lattice Steel Guyed Tower assembled to a 100ft height at site. The tower is made up of 10 Nos 10ft triangular lattice steel sections. Each section has a cross section of 12" made up of 33mm OD, 2.2mm thick pipe vertical side members, and each face will have a Z cross brace 13 1/2"pitch made up of 3/8 diameter solid rod. The pitch is suitable to be used as a climbing ladder too. The tower will have silver finish being hot dip galvanized. The tower is designed as per EIA-222-G standard to withstand wind speeds 132KPH wind speed.
- b) For roof mounting will have short J-type guy anchors stitched into the roof. The base of the tower will be placed on a 2ft x 2ft x 1 1/2ft concrete pad to distribute load on the roof.
- c) For ground installations, long J-type guy anchors will be terminated into concrete dead man type pads buried below surface level. The base of the tower will be placed on a 2ft x 2ft x 3ft concrete pad entombed in the ground.
- d) The tower will be guyed using 6mm diameter stranded steel guywires in three (directions at 30, 60, 90 feet levels; duly tensioned using

turn buckles and mounting hardware. Guys will be anchored in 120 degrees apart in virtual circle.

- e) An aviation warning light must be installed at the apex of the tower, the solar powered aviation light LT101 Solar Aviation Warning Light for Masts and tower obstacles (Telecommunication, GSM, and Radio & TV). ICAO compliance to (Aerodromes Annex 14) low intensity light TYPE-A.
- f) Lightning Protection rod will be installed at the apex of the tower grounded to using #10 GI grounding wire brought down the side of the tower to be base to be connected to the earth system. Proper grounding works for tower must be ensured to comply with international safety standards.
- g) A complete 100ft tower shall be divided into five (05) parts (20ft for each guyed)

**COMPONENT/SPECIFICATION LIST
(ACDB WITH DB ENCLOSURE FOR SINGLE SITE)**

S/No	Description	Rating	Qty.
1	MCCB Triple Pole RC:36KA(Adjustable)	80A	1
2	Auxiliary Switch OF	80A	2
3	Surge Protector Device RC:40KA	230/400V (4P)	1
4	Volt Meter (Digital) Built in Selector Switch (96x96mm)	0-500V	1
5	Ampere Meter (Digital) Built in Selector Switch (96X96mm)	0-100A	1
6	Current Transformer	100/5A	3
7	Phase Indication Lights(R, Y, B, On, OFF, Trip)	220VAC	6
8	Control MCB's	2Amp	3
9	Terminal Block	35mmsq	6
10	Brass Cable Glands For 4/C, Cu/PVC/PVC	25mmsq	1
11	Brass Cable Glands For 4/C, Cu/PVC/PVC	16mmsq	2

Note: (It must be able to stabilize voltages (step-up & step-down) and auto-restart once tripped.

With DB Enclosure

Main Breaker Cable Double Insulation.

DB will be Water Proof/Gasket.