

TECHNICAL SPECIFICATION OF 16 METER HEIGHT HIGH MAST LIGHTING**HIGH MAST STRUCTURE**

HEIGHT OF HIGH MAST		: 16 MTR.
MAKE		: ANY REPUTED MAKE
MATERIAL OF CONSTRUCTION		: BSEN 10025 S 355 OR EQUIVALENT
THICKNESS OF MATERIAL	i. TOP SECTION	: 3 MM
	ii. BOTTOM SECTION	: 4 MM
LENGTH OF INDIVIDUAL SECTION	i. TOP SECTION	: 8375 MM (APPROX)
	ii. BOTTOM SECTION	: 8375 MM (APPROX)
BASE & TOP DIAMETER	i. BOTTOM DIA	: 410 MM
	ii. TOP DIA	: 150 MM
TYPE OF JOINT		: STRESS SLIP FIT JOINTS
LENGTH OF OVERLAP		: 750 MM
METAL PROTECTION TRETMENT FOR MAST SECTION		: HOT DIP GALVANISED
THICKNESS OF GALVANISED	i. TOP SECTION	: AVERAGE 65 MICRONS
	ii. BOTTOM SECTION	: AVERAGE 86 MICRONS
SIZE OF DOOR OPENING AT BASE OF MAST		: 1200 X 250 MM
TYPE OF LOCKING ON DOOR PANEL		: ANTI VANDALISM TYPE
SIZE OF BASE PLATE	i. DIAMETER	: 570 MM
	ii. THICKNESS	: 25 MM
DETAILS OF ANCHOR PLATE		: 570 DIA X 4 MM P. C. D. 490 MM X 08 HOLE
DETAILS OF TEMPLATE		: 570 DIA X 4 MM P. C. D. 490 MM X 08 HOLE
MAXIMUM WIND SPEED		: 180 KM / HR
FACTOR OF SAFETY FOR WIND LOAD		: 1.15
FACTOR OF SAFTY FOR OTHER LOADS		: 1.11
NO OF FOUNDATION BOLTS		: 08 NOS.

DIAMETER OF FOUNDATION BOLTS	: M 30 (850 MM LONG)

LANTERN CARRIAGE.

MATERIAL OF CONSTRUCTION	: 50 NB CLASS - B ERW MS PIPE
DIAMETER OF LANTERN CARRIAGE RING	: 800 MM (O.D.)
NUMBER OF JOINTS.	: 3 SEGMENTS
BUFFER BETWEEN CARRIAGE & MAST	: PVC PADDED GUIDE RING PROVIDED
LOAD CARRING CAPACITY	: 750 KGS.
NO. OF FITTINGS	: 12 NOS
AVIATOION LIGHT	: PROVIDED

WINCH

MAKE OF WINCH	: ANY REPUTED MAKE
NUMBER OF DRUM PER WINCH	: DOUBLE DRUM
GEAR RATIO	: 30 : 1
CAPACITY	: SWL 750 KGS.
METHOD OF OPERATION	: MANUAL AND MOTORIZED
LUBRICATING ARRANGEMENT	: PERMANENT OIL BATH
TYPE OF LUBRICANT	: GEAR OIL / SAE 90 / SAE 140
TESTED LOAD PER DRUM	: 750 KGS.

WIRE ROPE

DIAMETER OF ROPE	: 6 MM
CONSTRUCTION OF ROPE	: 7/19. (GR. AISI 316)
BREAKING LOAD CAPACITY	: 2350 KGS. PER WIRE ROPE
FACTOR OF SAFETY	: > 5 FOR SYSTEM AT FULL LOAD
THIMBLE & TERMINALS	: PROVIDED

POWER TOOL

MOTOR CAPACITY	: 1.5 HP (3 PHASE 415 VOLT)
NO OF SPEED	: SINGLE SPEED
REVERSABLE / NON-REVERSABLE	: REVERSABLE

TRAILING CABLE

CONDUCTOR	: COPPER 5 CORE 4 SQ. MM
INSULATION	: PVC INSULATED FLEXIBLE Cu CABLE
NO. OF CIRCUIT PER MAST	: ONE

LIGHTING FINIAL

LIGHTING FINIAL	: G. I. SINGLE SPIKE OF LENGTH 1200 MM
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