

- 22.20 PILING DEPTH AND FOUNDATION STRATA SHALL BE APPROVED BY GE BEFORE CONCRETING THE DETH OF PILE SHALL BE TENTATIVELY ~~12.00~~ ^{125.00} MTRS BASED ON SOIL REPORT. HOWEVER, ACTUAL DEPTH SHALL BE AS PER SITE CONDITIONS. THE PILE SHALL BE ANCHORED FOR 2.0 METERS DEPTH IN FRACTURED ROCK STRATA IN TERMS OF IS 14593.
- 22.21 PILING WORK SHALL BE COMMENCED ONLY AFTER CARRYING OUT INITIAL LOAD TEST AS PER IS-2911 PART IV-2013. NO SUPERSTRUCTURE LOAD SHALL BE PERMITTED WITHOUT ASCERTAINING LOAD CARRYING OF PILES THROUGH INITIAL & ROUTINE TEST AS SPECIFIED.
- 22.22 INITIAL & ROUTINE LOAD TEST RESULTS SHALL BE APPROVED BY CWE.
- 22.23 RECORDS OF LOAD TEST RESULTS INCLUDING PHOTOGRAPHIC RECORD OF BOTH INITAL AND FINAL LOAD TEST SHALL BE MAINTAINED BY AGE AND KEPT ON RECORD.
- 22.24 OVERLAP OF REINFORCEMENT BAR PILES (LONGITUDINAL BARS) SHALL BE WELDED FOR FULL DEVELOPMENT LENGTH. OVERLAP OF STIFFENER RING SHALL BE MIN 25 MM AND OVERLAP PORTION SHALL BE WELDED.
- 22.25 THE FOLLOWING PILE CAPACITIES HAVE BEEN ADOPTED IN DESIGN AS PER DETAILS GIVEN BY SOIL CONSULTANT:-

DIA OF PILE :	500Ø
COMPRESSION LOAD	152T
LATERAL LOAD	7.1T

FOLLOWING TESTS SHALL BE CONDUCTED ON PILES ACCORDINGLY, FOR INTIALL LOAD TEST 2.5 TIMES ABOVE LOADS SHALL BE CONSIDERED. FOR ROUTINE TESTS 1.5 TIMES THE ABOVE LOADS SHALL BE CONSIDERED

TYPE OF TEST	TYPE OF PILE	NO OF PILES TO BE TESTED		
		COMPRESSION	LATERAL	UPLIFT
INITIAL LOAD TEST	TEST PILES	2	2	NIL*
ROUTINE LOAD TEST	WORKING PILES	10	10	

NOTE :- PILE INTEGRITY TEST SHALL BE DONE ON ALL WORKING PILES

* NO UPLIFT FORCE OBSERVED

23.0 PCC BED BLOCKS:-

- 23.1 RCC BEAMS RESTING ON WALLS SHALL BE PROVIDED WITH PCC (1:2:4) BED ROCK OF SIZE (WIDTH OF BEAM + 400 MM) x WALL THICKNESS x 200 MM THICK, UNLESS OTHERWISE SPECIFIED. IN CASE OF RCC BEAMS RESTING ON MASONARY PILLARS OF SIZE BxD SHALL BE PROVIDED WITH PCC (1:2:4) BED ROCK OF SIZE BxDx 150 THICK, UNLESS OTHERWISE SPECIFIED.

24.0 LEVELING LLAYER:-

- 24.1 THE BEARING OF SLOPING SLABS/BEAMS HAVING SLOE LESS THAN 1:20 SHALL BE HORIZONTAL BY PROVIDING A LEVELING LAYER OF PCC(1:2:4) OF AVERAGE THICKNESS OF 20MM.

25.0 NON-STRUCTURAL MEMBERS:-

- 25.1 MIX OF CONCRETE FOR ALL RCC WORKS FOR NON STRUCTURAL MEMBERS LIKE CHAJJA, PROJECTIONS, CORNICES, RCC ARCHITECTURAL FACADES ETC., SHALL BE SAME AS THAT FOR MAIN STRUCTURAL MEMBERS IN SUPER STRUCTURE AS PER IS-456.

- 25.2 UNLESS OTHERWISE SPECIFIED THE TOP OF CHAJJA MUST BE PROVIDED WITH 12MM TH PLATER IN CM 1:4 WITH WATER PROOFING COMPOUND AS SPECIFIED. THIS PLASTERING SHALL BE DONE BEFORE THE CONCRETE FINALLY SET.

- 25.3 SHUTTERING OF CHAJJA SHALL BE REMOVED UNLESS SUFFICIENT COUNTERWEIGHT FOR ANCHORAGE HAS DEVELOPED AT THE SUPPORT PORTION.

- 25.4 SHUTTERING OF CHAJJA SHALL BE REMOVED STARING FROM THE FREE END TOWARDS THE FIXED SUPPORT

- 25.5 THE MINIMUM CLEAR COVER FOR CONCRETE REINFORCEMENT ON TOP FACE OF CHAJJA SHALL BE 20 MM AND FOR LINTELS, FIN/DROP/FACIA/PARAPET SHALL BE 24MM.

26.0 RCC LINTELS:-

- 26.1 HEIGHT OF SOFFIT OF LINTEL BEAMS SHALL BE AS INDICATED IN ARCHITECTURAL DRAWING. IN CASE THE SAME IS NOT INDICATED IN ARCHITECTURAL DRAWING IT SHALL BE 2100 MM ABOVE RESPECTIVE FLOOR LEVEL.

27.0 TYPICAL DETAILS:-

- 27.1 TYPICAL DETAILS OF CERTAIN COMMONLY USED STRUCTURAL / NON STRUCTURAL PARTS SHALL BE FOLLOWED AS PER SKETCHES SHOWN IN SHT NO. 04 TO 05

28.0 DESIGN PARAMETERS:-

- 28.1 THE STRUCTURE(S) HAS BEEN DESIGNED AS ER RELEVANT INDIAN STANDARDS AND FOR FOLLOWING BASIC DESIGN PARAMETERS / CONDITIONS:

SEISMIC ZONE	II
BASIC WIND SPEED(Vb)	50 m/s
EXPOSURE CONDITION	SEVERE
PERIOD OF FIRE RESISTENCE	02 HRS
REINFORCEMENT STEEL GRADE	Fe500D CRS
CEMENT FOR RCC WORKS INCLUDING PILES AND PILE CAPS	OPC 43 GRADE
CEMENT FOR OTHER WORKS LIKE PCC, MASONRY, PLASTERING ETC	PPC OR PSC
RCC MIX GRADE	M-30 FOR ALL RCC WORKS

BUILDING NAME	
HANGER	LIVE LOAD FLOOR LOAD = 30 KN/M ² ROOF LOAD = 0.75 KN/M ²
ANNEXURE	LIVE LOAD FLOOR LOAD = 3 KN/M ² ROOF LOAD = 1.5 KN/M ²

- 28.3 THE STRUCTURE(S) HAS NOT BEEN DESIGNED FOR ANY IMPACT OR LOCALISED HEAVY LOADS AND CONTINUOUS GROUND VIBRATIONS. THE PORTAL OR FRAME OF STRUCTURE SHALL NOT BE USED FOR ANY UNINTENDED LOADING/ UNLOADING OPERATIONS.

29. NGL MENTIONED IN STRUCTURAL DRAWING SHALL BE +2.85 M AS INDICATED IN SITE PLAN OF ARCH. DRAWINGS.

30. MGL AND FFL SHALL BE AS PER ARCH. DRGS

31. THE TOP OF GRADE SLAB SHALL BE FLUSH WITH TOP OF PLINTH BEAM. THE TOP LEVEL OF THE GRADE SLAB SHALL BE IN ACCORDANCE WITH FFL TO ALLOW SPECIFIED FLOOR FINISHES.

03-03-23	SER NO. 30 & 31 ADDED	
03-03-23	DEPTH OF PILE CORRECTED IN NOTE - 22.20	
03-03-23	SER NO. 29 ADDED	
03-03-23	AT 22.25 LOAD TEST TABLE CORRECTED	
DATE	DESCRIPTION	SIGN
REVISIONS		


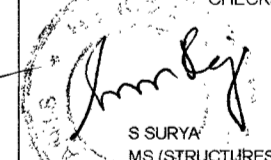
VETTED BY

ALL DETAILS HAVE BEEN THOROUGHLY CHECKED AND ARE IN COMPLIANCE TO STANDARDS, CODES, REGULATIONS IN RESPECT OF SAFETY, SOUNDINESS AND ECONOMY.

PROVN OF HANGAR AND ANNEXE
BUILDING AT
INS DEGA VISAKHAPATNAM

GENERAL NOTES-3


SHT NO.	S03	HELIOS ENGINEERING CONSULTANTS #38-34-66 PCI COLONY MARRIPALEM VISAKHAPATNAM - 530018
PRO NO.	ST2204	
SCALE.	AS NOTED	
DRN BY.	KSS	
DATE.	28-02-2023	

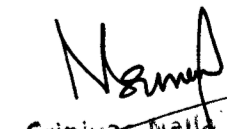
DESIGNED BY	CHECKED BY
 DV TRINADH RAO	 S SURYA MS (STRUCTURES)

**CHIEF ENGINEER
(NAVY)
VISAKHAPATNAM**

REF.DRG.NO : CEVZ2022/MD-2120(S) (GN) Sht.No 344

DESIGNS & DRAWINGS PREPARED UNDER CONSULTANCY FROM M/S HELIOS ENGINEERING CONSULTANTS AND VETTED BY ANDHRA UNIVERSITY


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