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1.0

GENERAL

1.1

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS & CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

1.2

THESE GENERAL NOTES SHALL BE APPLICABLE TO ALL OUR DRAWINGS THROUGHOUT THE PROJECT.

1.3

ALL DIMENSION ARE IN MM AND LEVELS ARE IN METER UNLESS NOTED OTHERWISE.

1.4

ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS & ANY DISCREPANCY SHALL BE BROUGHT TO OUR NOTICE BEFORE EXECUTION.

1.5

NO DIMENSIONS SHALL BE SCALED FROM STRUCTURAL DRAWINGS, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. ANY MISSING DETAILS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT / SITE ENGINEER BEFORE EXECUTION. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.

1.6

BACKFILLING AROUND FOUNDATION TRENCHES AND PLINTH SHALL BE DONE WITH SOIL HAVING NON-SWELLING & NON-SILTING CHARACTERISTIC, PROPERLY WATERED & COMPACTED AT 95% MDD IN LAYER OF A THICKNESS NOT MORE THAN 200MM DEPTH.

1.7

ALL THE MATERIALS USED IN CONSTRUCTION SUCH AS CEMENT, MILD / TMT / HYSD STEEL, COARSE AGGREGATE, FINE AGGREGATE (SAND), STRUCTURAL STEEL SECTIONS, AAC BLOCK ETC. SHALL BE OF GOOD QUALITY & CONFORMING TO RELEVANT INDIAN STANDARD. ALL NECESSARY TESTING OF MATERIAL SHALL BE DONE BEFORE USING THE MATERIAL FOR EXECUTION.

1.8

THE STRUCTURE IS DESIGNED AS PER RELEVANT I.S CODE AND FOR FOLLOWING ENVIRONMENT CONDITIONS:
(a) SEISMIC ZONE : V
(b) BASIC WIND SPEED (Vb) : 50M/SEC
(c) EXPOSURE CONDITION : SEVERE
(d) FIRE RATING : 2 HOURS

1.9

THE STRUCTURE IS NOT DESIGNED FOR ANY IMPACT OR BLASTING, LOCAL HEAVY AND CONTINUOUS GROUND VIBRATION.

1.10

THE PORTAL OR FRAME OF STRUCTURE SHALL NOT BE USED FOR ANY LOADING/ UNLOADING OPERATIONS.

1.11

ANY STRUCTURAL ALTERATION MADE OR ANY CHANGE IN LOADING CONDITION ON STRUCTURE, MAY AFFECT THE TOTAL DESIGN OF STRUCTURE FOR WHICH DESIGNER WILL NOT BE RESPONSIBLE.

1.12

ALL FOOTING SHALL REST ON VIRGIN SOIL OR ON LEAN CONCRETE FILL (M15) EXTENDING TO DEPTH OF ADEQUATE FOUNDING STRATUM, WHEREVER SUCH SOIL STRATUM IS NOT MET WITH AT THE DEPTH, SPECIFIED ON THE DRAWING.

1.13

FOR SAFE VERTICAL & LATERAL LOAD CARRYING CAPACITY OF PILE, SEE RESPECTIVE PILE FOUNDATION DRAWINGS.

1.14

SUB-SOIL STRATA AT SITE SHALL BE VERIFIED BY GE PRIOR TO EXECUTION. IF IN THE COURSE OF EXCAVATION, SUB-SOIL STRATA DIFFERS FROM THE BORELOG STRATA, THE SAME SHALL BE REPORTED TO DESIGN OFFICE FOR NECESSARY STEPS.

1.15

BLACK COTTON SOIL, IF ENCOUNTERED IN FOUNDATION PITS, SHALL BE FULLY REMOVED.

2.0

CONCRETE WORK

2.1

ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE M30 UNLESS MENTIONED IN THE DESIGN DRAWING. PROPER MIX DESIGN AS PER IS:10262-2019 SHALL BE DONE TO ACHIEVE PROPER CONCRETE GRADE. VIBRATORS SHALL BE USED WHILE CONCRETE PLACEMENT.

2.2

THE SHUTTERING SHALL BE REMOVED AS FOLLOWS AFTER CASTING CONCRETE:

SR NO.	TYPE OF FORMWORK	MINIMUM PERIOD BEFORE STRIKING FORMWORK	
		FOR CONCRETE MADE USING OPC	FOR CONCRETE MADE USING CEMENT OTHER THAN OPC OR USING MINERAL ADMIXTURES LIKE FLY ASH AND SLAG
i)	VERTICAL FORMWORK TO COLUMN, WALLS, BEAMS	16-24h	16-24h
ii)	SOFFIT FORMWORK TO SLABS (PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORMWORK)	3 DAYS	7 DAYS
iii)	SOFFIT FORMWORK TO BEAMS (PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORMWORK)	7 DAYS	10 DAYS
iv)	PROPS TO SLABS : 1) SPANNING UP TO 4.5M 2) SPANNING OVER 4.5M	7 DAYS 14 DAYS	10 DAYS 14 DAYS
	PROPS TO BEAMS AND ARCHES : 1) SPANNING UP TO 6M 2) SPANNING OVER 6M	14 DAYS 21 DAYS	14 DAYS 21 DAYS

NOETS:-
1) UTMOST CARE SHALL BE TAKEN TO PROVIDE PROPS. THE PROPS SHALL BE PROVIDED IMMEDIATELY AFTER STRIPPING EACH SHUTTERING PANEL AND NOT AFTER STRIPPING ALL THE PANELS OF THE ENTIRE SLAB.
2) PROVIDED CONCRETE CUBE TESTING IS DONE TO ENSURE THAT THE FOLLOWING MINIMUM STRENGTH IS ACHIEVED:
a) 3 DAYS :- 45% OF SPECIFIED STRENGTH.
b) 7 DAYS :- 60% OF SPECIFIED STRENGTH.
c) 14 DAYS :- 85% OF SPECIFIED STRENGTH.

2.3

CONCRETE SAMPLE CUBES SHALL BE TAKEN FOR ALL PARTS OF BUILDINGS COMPONENTS & STRENGTH VERIFIED.

2.4

LAP IN REINFORCEMENT SHALL BE PROVIDED NEAR TO SUPPORT IN CASE OF SIMPLY SUPPORTED MEMBERS AND STAGGERED FOR CONTINUOUS BEAM OR SLAB. NO LAP SHALL BE PROVIDED FOR EXTRA TOP BARS.

2.5

LAP LENGTH FOR VARIOUS BARS SHALL BE 50 TIMES THE BAR DIAMETER FOR ALL MEMBERS.

2.6

PROPER COVER SHALL BE MAINTAINED FOR ALL R.C.C MEMBERS BY ATTACHING SUITABLE COVER BLOCKS TO REINFORCEMENT BARS. THE CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT FOR DIFFERENT MEMBERS SHALL BE AS FOLLOWS:

(a)	PILE	75MM
(b)	PILE CAP	75MM
(c)	COLUMN	45MM
(d)	LINTEL	25MM
(e)	BEAM	45MM
(f)	SLAB, STAIR	30MM

2.7

NO CHANGE EITHER IN SIZE OR REINFORCEMENT SHALL BE MADE WITHOUT STRUCTURAL ENGINEER'S WRITTEN APPROVAL OR CORRECTIONS IN DRAWINGS.

2.8

UNDER NO CIRCUMSTANCES, CONCRETING BE DONE UNLESS REINFORCEMENT IS CHECKED, APPROVED & CERTIFIED BY STRUCTURAL ENGINEER/SITE ENGINEER.

2.9

THE BEAM DEPTHS MENTIONED IN OUR DRAWING INCLUDE SLAB THICKNESS, WHEREVER APPLICABLE.

2.10

ALL STEEL BARS USED FOR CONCRETE REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED (HYSD) TMT BARS AND SHALL CONFORM TO IS :1786-2008 (Fe=500D TMT & CRS/ FUSION BONDED EPOXY COATED (FBEC)/ ZINGA CHEMICAL) SPECIFICATIONS AND DENOTED AS '#'. ELONGATION OF STEEL BARS SHALL BE EQUAL TO OR MORE THAN 16 PERCENT AS PER CL. 5.3.1 OF IS: 13920-2016

2.11

REINFORCEMENT SHALL BE BENT AND FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS: 2502

2.12

THE STIRRUPS, TIES AND LINKS IN ALL BEAMS AND COLUMNS SHALL BE PROVIDED AS FOLLOWS:

BENT LENGTH b=08 TIMES D OR 75 MM (WHICHEVER IS LARGER) WHERE D= BAR DIA OF STIRRUPS, TIES & LINKS.

2.13

NO LAP IN COLUMN MAIN STEEL SHALL BE PROVIDED AT TOP ONE FOURTH HEIGHT AND BOTTOM ONE FOURTH HEIGHT OF THE COLUMN. LAP SHALL BE PROVIDED ONLY IN MIDDLE ONE HALF HEIGHT OF COLUMN IN SUCH A WAY THAT MAXIMUM 50% OF THE MAIN STEEL BARS ARE LAPPED AT A PARTICULAR LEVEL.

2.14

AT JUNCTIONS OF BEAMS AND COLUMNS, ALL TIES / STIRRUPS IN BOTH DIRECTIONS SHALL BE PROVIDED AND CONCRETE GRADE TO BE ADOPTED, SHALL BE HIGHER OF THE TWO, IF DIFFERENT GRADES ARE SPECIFIED.

2.15

SAND USED FOR CONSTRUCTION SHALL BE WELL GRADED (COARSE TYPE) AND SHALL CONFORM TO IS: 383. COARSE AGGREGATE (STONE CHIPS) USED SHALL BE WITH SHARP EDGES, WELL GRADED CONFORMING TO IS: 383, BLACK IN COLOR AND MAXIMUM SIZE 20MM, UNLESS NOTED OTHERWISE.

2.16

IN CASE OF VARIATION IN QUALITY OF MATERIAL, MIX DESIGN SHOULD BE REDESIGNED.

2.17

CURING OF CONCRETE SHALL BE DONE UP TO 14 DAYS AFTER CASTING. USE PONDING METHOD FOR SLAB AND WRAP JUTE BAGS AROUND COLUMNS, WETTING 3 TIMES A DAY FOR COLUMNS, WALLS ETC.

2.18

SPACER BAR/PIN SHALL BE OF #25@1000MM C/C TO KEEP CLEAR DISTANCE OF 25MM BETWEEN TWO HORIZONTAL LAYERS OF REINFORCEMENT.

2.19

CHAIRS SHALL BE PROVIDED TO SUPPORT TOP REINFORCEMENT (WHERE REQUIRED) OF FOUNDATION & SLAB AND SHOULD NOT BEND OR BUCKLE UNDER THE WEIGHT OF REINFORCEMENT & OTHER INCIDENTAL LOADS DURING CONSTRUCTION. MINIMUM DIA OF CHAIR SHALL BE #16MM FOR FOUNDATION AND #12MM FOR SLAB @ SPACING NOT EXCEEDING 1000MM C/C.

2.20

BREAKING OF RCC MEMBER FOR INLET OF PIPE, ELECTRICAL CONDUITS ETC IS NOT PERMITTED. NECESSARY OPENINGS FOR PIPE, CONDUITS ETC AT REQUIRED POSITION SHALL BE PLANNED & PLACED IN THE FORMWORK BEFORE STARTING CONCRETING.

2.21

SHUTTERING, FORM WORK & STAGING OF COLUMN, BEAM & SLAB SHALL BE PROPERLY DESIGNED BY CIVIL CONTRACTOR AND ALL PRECAUTION TO BE TAKEN WHILE CASTING.

2.22

REINFORCEMENT DETAILING SHALL BE DONE IN ACCORDANCE WITH IS:13920-2016 AND SP34, REFER STRUCTURAL STANDARD DRG. GDR/KPT/005/STR/02, SHT. 1 & 2.

2.23

COMPRESSIVE STRENGTH OF AAC BLOCKS USED IN THIS WORK SHALL NOT BE LESS THAN 40 KC/SQCM. ALL THE PARTITION WALLS UP TO 100MM THK. SHALL BE REINFORCED WITH 2 NOS. OF 8MM DIA. BARS AT EVERY 4TH. LAYER OF MASONRY.

2.24

WHEREVER, HALF BLOCK WALL/ PARTITION WALL IS PROVIDED WITHOUT ANY BEAM UNDERNEATH, HIDDEN BEAM SHALL BE PROVIDED AS 300MM X SLAB THICKNESS WITH MAIN REINFORCEMENT 6 NOS. BARS OF #16 MM (TOP- 3 & BOTTOM- 3) AND # 8 MM- 2 LEGGED STIRRUPS AT 75MM C/C AND ALL PARTITION WALLS ON GROUND FLOOR SHALL BE RAISED FROM PCC SUB-BASE INCASE PLINTH BEAM IS NOT SHOWN.

2.25

100 THK PCC (M15) PLATFORM OF AREA EQUIVALENT TO THE BASE OF THE PVC WATER TANK SHALL BE PROVIDED AT EACH LOCATION FOR RESTING THE WATER TANK ABOVE (AS PER ARCH DRG) IN ROOF SLAB, IF APPLICABLE.

2.26

IN SLABS, DISTRIBUTIONS BARS 8# @ 250 C/C SHALL BE PLACED IF NOTHING ELSE HAS BEEN SPECIFIED.

2.27

WHEN BARS OF DIFFERENT DIA. ARE TO BE SPLICED LAP LENGTH SHALL BE CALCULATED BASED ON LARGAR DIA.

2.28

LAPS CLOSER TO MID SECTION IN CASE OF BOTTOM BARS & CLOSER TO SUPPORTES IN CASE OF TOP BARS SHALL BE AVOIDED.

2.29

ENGINEER IN CHARGE SHALL SEPECIALLY ENSURE THAT HOOPS/ LINKS SPECIFIED FOR THE COLUMNS ARE PROVIDED IN THE REGION OF BEAM-COLUMN JUNCTION ALSO. HOOPS/ LINKS SHOULD NOT BE OMITTED FROM THAT AREA DESPITE OF PLACEMENT DIFFICULTIES.

2.30

ALL 100/110 THICK WALLS EXCEEDING 3000 IN HEIGHT, HORIZONTAL RCC BANDS OF WIDTH EQUAL TO THE THICKNESS OF WALL AND 150 IN DEPTH, WITH TWO NOS 12# BARS AT TOP AND TWO NOS 12# BARS AT BOTTOM WITH 8# STIRRUPS @ 150 C/C SHALL BE PROVIDED. BANDS SHALL BE CARRIED FULLY INTO THE ADJACENT WALLS/ COLUMNS.

2.31

WHEREVER WALLS COMING IN DIRECT CONTACT WITH RCC SLAB BEARING PLASTER SHALL BE PROVIDED.

2.32

ALL 200/220 THICK WALLS EXCEEDING 6000 IN LENGTH AND 100/110 THICK WALLS EXCEEDING 3000 IN LENGTH, IN ADDITION TO HORIZONTAL BANDS, VERTICAL BANDS (AS PER SKETCH BELOW) HAVING SAME SIZE AND REINFORCEMENT AS PER SKETCH SHALL BE PROVIDED AT DISTANCE NOT EXCEEDING 3000 C/C. VERTICAL BARS SHALL BE EMBEDDED IN BEAM/SLAB MIN 100 MM.

WALL THICK.

2-12#

8#@ 150 C/C

2-12#

2.33

IF P.V.C CONDUIT PIPES ARE TO BE PROVIDED SAME SHALL BE PREFERABLY PLACED AT THE MIDDLE OF THE THICKNESS OF SLAB.

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PROPER COVER SHALL BE MAINTAINED FOR ALL R.C.C MEMBERS BY ATTACHING SUITABLE COVER BLOCKS TO REINFORCEMENT BARS. THE CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT FOR DIFFERENT MEMBERS SHALL BE AS FOLLOWS:

(a)	PILE	75MM
(b)	PILE CAP	75MM
(c)	COLUMN	45MM
(d)	LINTEL	25MM
(e)	BEAM	45MM
(f)	SLAB, STAIR	30MM

WALL THICK.

2-12#

8#@ 150 C/C

2-12#

2.33

IF P.V.C CONDUIT PIPES ARE TO BE PROVIDED SAME SHALL BE PREFERABLY PLACED AT THE MIDDLE OF THE THICKNESS OF SLAB.

16

15

14

13

12

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2.3

CONCRETE SAMPLE CUBES SHALL BE TAKEN FOR ALL PARTS OF BUILDINGS COMPONENTS & STRENGTH VERIFIED.

2.4

LAP IN REINFORCEMENT SHALL BE PROVIDED NEAR TO SUPPORT IN CASE OF SIMPLY SUPPORTED MEMBERS AND STAGGERED FOR CONTINUOUS BEAM OR SLAB. NO LAP SHALL BE PROVIDED FOR EXTRA TOP BARS.

2.5

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