

- GRADE OF CONCRETE SHALL BE M-20.
 Ø MEANS HIGH YIELD STRENGTH DEFORMED BAR HAVING YIELD STRENGTH OF 500
- N/MM².

 3. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 50MM FOR FOOTING, 40MM FOR
- 5. LAP LENGTH SHALL BE EQUAL TO LD=57 TIMES SMALLER DIA OF BARS AND SHALL
- 7. ALL CONCRETE SHALL BE MACHINE MIXED AND MACHINE VIBRATED.
- 8. USE 10% EXTRA CEMENT IN CONCRETE FOR CASTING UNDER THE WATER TABLE.
- 9. THE NET SAFE BEARING CAPACITY IS CONSIDERED AS 10 T/SQM AT A DEPTH OF 3.0 m BELOW THE E.G.L, IF THE SAME IS NOT ENCOUNTERED AT THE PROPOSED DEPTH, EXTRA EXCAVATION SHALL BE DONE UPTO THE SUITABLE DEPTH & PCC (1:4:8) SHALL BE FILLED UP AFTER REMOVAL OF EARTH.
- 10. DADO WHITE GLAZED TILE 1800 HIGH. IN TOILET & BATH ROOM.

R0	25.01.2020	FOR APPROVAL	2M2	PK	
REV.	ISSUED	DESCRIPTION	DEALT	CHECKED	APPROVED

REVISIONS

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NORTH

JHARKHAND URBAN INFRASTRUCTURE DEVELOPMENT

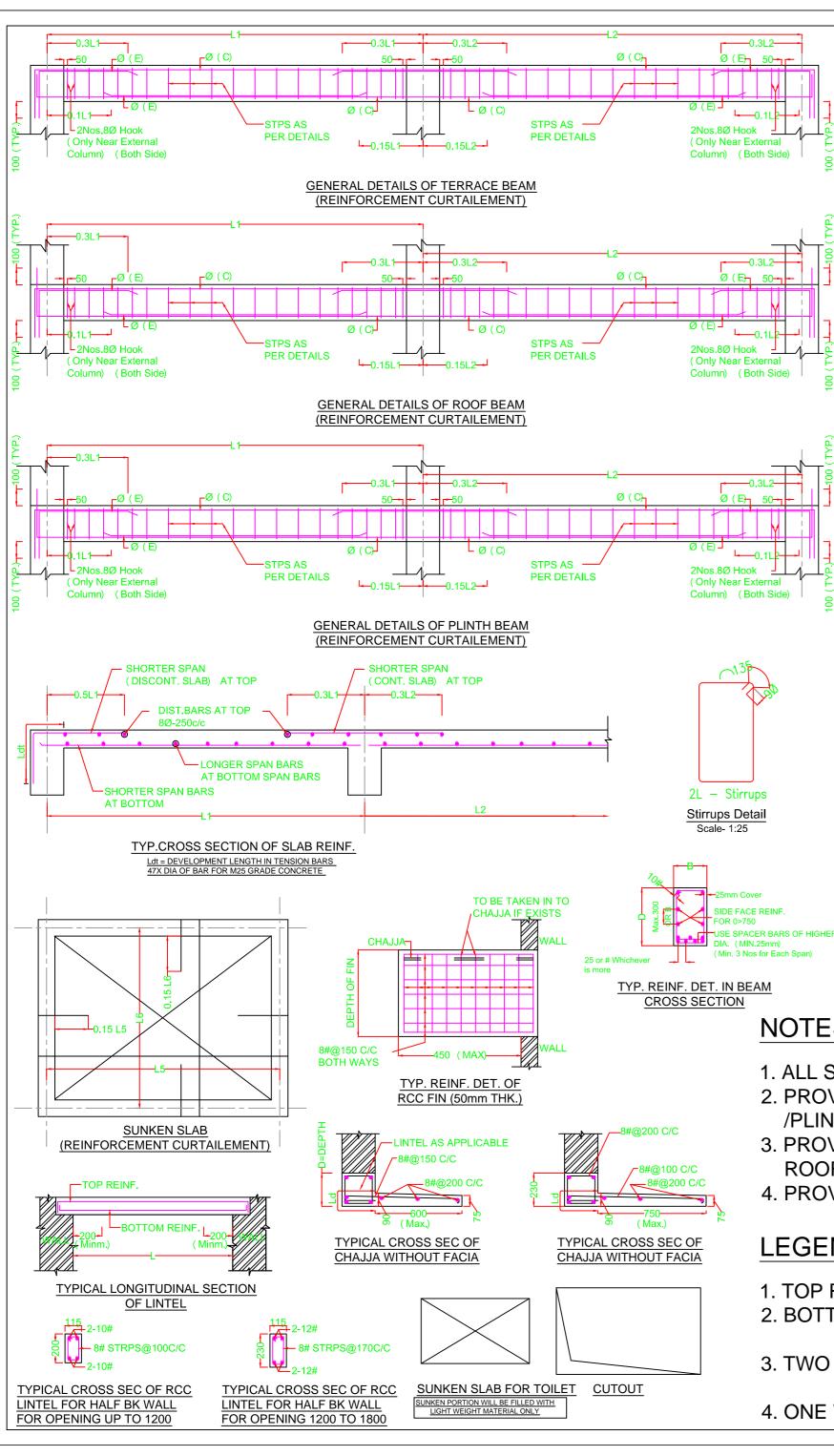
CONSTRUCTION (INCLUDING STRUCTURAL DESIGN) OF 640 DWELLING UNITS IN 20 NUMBER OF G+3 BLOCKS (32 DU's IN EACH BLOCKS) AT CHAS KALAPATHAR UNDER PRADHAN MANTRI AWAS UYOJNA (URBAN) (PACKAGE-K)

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PURPOSE	FOR CO	NSTRUCTION			
SCALE : SHEET :	1:100 A2	DRG TITLE -			
DEALT	SMS	PLAN FOR 8 DU's II	N ONE F	LOOR.	
CHECKED	PK				
APPROVED		DRG NO- RSA/ICUBED/PMA	Y/CHS/S	ΓR/05	REV. R0

M/s R.S. AGRAWAL INFRATECH PVT. LTD.

201, 2nd FLOOR, LIYA COMPLEX, P.P. COMPUND MAIN ROAD, RANCHI, JHARKHAND - 834001

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GENERAL NOTES FOR STRUCTURAL WORKS:-

**LIVE LOAD AS PERI.SCODE-FOR ALL FLOORS

01.READ THIS DRG.IN CONJUNCTION WITH OTHER RELEVENT DRGS. 02.CONC.USEDM-25FORALLR.C.CWORKS,ANDM-25FOR **COLUMN UNLESS NOTED**

CONCRETING SHALL BE DONE IN DRY CONDITION. 03 ALL STEEL REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH

STRESS 0.2 PROOF STRESS OF 415Nsq.mm (GRADEFe415) 04.CLEAR COVER TO ALL REINF. (INCLUDING LINKS) TO BE AS FOLLOWS FOOTING (SIDE, BOTTOM&TOP)-50mm, SLAB-20mm, BEAM-25mm,

05.LAPS 54XD FOR COLUMNS, 50XD FOR THE REST

06.EXCAVATIONS. SURFACE PREPERATION. SHUTTERING. REINF PLACING, CONCRETING & REPAIRS FINISHING TO BE AS BEST

PRACTICES & RELEVENT I.S.CODES 07.BACK FILLING TO BE DONE AS SPECIFICATION CODAL PROVISIONS TO

ACHIEVE COMPACTNESS STRENGTH IN-SITU CONDITIONS 08.EACH WORK (SPECIALLYCONC.) IS TO BE DONE AFTER PRIOR APPROVAL

OF THE ENGINEER-IN-CHARGE & TO BE DONE UNDER HIS SUPERVISION. 09.UNCLEAR DETAILS HAVE TO BE CHECKED CONFIRMED PRIOR TO

10.ALL DIMENSIONS ARE MILLIMETRE

11.ALL SAFETY CONSIDERATIONS & PROCEDURES TO BE ADHERERD TO.

12.TOP REINFORCEMENT BARS SHALL BE SUPPORTED ON SUITABLE CHAIR (NOTSHOWNINDRG.) SO THAT THEY MAY REMAIN IN POSITION WHILE CONCRETING.

13.CONSTRUCTION JOINT TO BE FINISHED PROPERLY, SCARIFING THE SURFACE AFTER FIRST STAGE OF CONCRETING & TO BE **CLEANED & COATED WITH CEMENT SLURRY BEFORE** COMMENCEMENT A SECOND STAGE OF CONCRETING.

13a.CONSTRUCTION JOINT SHALL NOT BE PLANNED NEAR MID SPAN BUT SHALL BE AWAY FROM THE MIDDLE THIRD OF THE SPAN.

13b.CONSTRUCTION JOINT SHALL NOT BE PROVIDED IN THE

CANTILEVER PART. 14.NOT MORE THAN 500F TOTAL COL.BARS SHALL BE LAPPED AT ANY

POINT, LAPS SHALL BE STAGGERED. A LAP SHALL BE STAGGERED IF THE CENTRE LESS THAN 1.3 TIMES 54xDIA. OF MAIN REINE, BAR LAP SPLICES SHALL BE PROVIDED IN THE CENTRAL HALF OF THE MEMBER LENGTH. HOOPS SHALL BE PROVIDED OVER THE ENTIRE SPLICE LENGTH AT SPACING NOT EXCEEDING

15.COL. TIE SHALL BE PROVIDED AS SPECIAL CONFINING STEEL ABOVE AND BELOW THE BEAMS AS PER TYPICAL SECTION OF THE COLUMN, THESE TIES SHALL BE PROVIDED THROUGH THE JUNCTION AS WELL

16.WHERE JUNCTION IS CONFINED BY BEAM SOON ALL THE FOUR SIDES, THE SPACING OF THE STIRRUPS WITHIN THE JUNCTION MAY BE DOUBLED 17.IN CASE OF DIFFICULTY IN PROVIDING CLOSED TIES(STIRRUPS)'U' TIES

MAY BE PROVIDED AT BEAM COL. JUNCTION. 18.ONLY STIRRUPS OF COLUMNS ARE TO BE CONTINUED THROUGH BEAM COLUMN JUNCTION

19.BARS SPLICES SHALL NOT BE PROVIDED AT JUNCTION.

20.SPLICING OF BARS AT BEAM COL. JUNCTION SHALL NOT BE DONE.

PREFERABLY SPLICING OF BARS SHALL BE DONE IN MIDDLE HALF FOR COLS & LAPPING OF TOP BARS IN BEAM TO BE AVOIDED

NEAR COL BEAM JUNCTIONS. BOTTOM BARS OF BEAMS MAY BE SPLICED AT COLJUNCTIONAL SO PROVIDED SUFFICIENT SPACE IS AVAILABLE FOR CONCRETING

21. 50 OF COLUMN MAIN REINF. BARS LAPPING TO BE REPEATED IN ALTERNATE FLOOR

GENERAL NOTES FOR LINTEL WORKS:-

- 1.ALL DIMENSIONS ARE MILLIMETRE
- 2.THISDRG.IS APPLICABLE FOR SINGLE SPAN LINTEL, AND SHALL NOT

BE FOLLOWED WHEN LINTEL IS CONTINUOUS.

3.MIXOFCONCRETESHALLBEM-20(DESIGNMIX).WHERETHEMIX OFCONC.ISMORETHANM-20(DESIGNMIX)FORMAINSTRUCTURE

THESAMEMIXSHALLBEFOLLOWEDFORALLDETAILSOFTHISDRG

4.FOROPENINGCOMINGJUSTBELOWROOF,LINTELSTOBECAST MONOLITHICALLYWITHROOFSLABUNLESSOTHERWISEMENTIONED

5.EXPANSIONCONSTR.JOINTOF10mmWIDTHSHALLBEPROVIDED

INCHAJJAAT6000mmLENGTH.

6.PCCBLOCKOFM-20(NOMINALMIX)OF150mmDEPTH,LENGTH EQUALTODOUBLETHEDEPTHOFPCCBLOCKANDWIDTHEQUALTO THICKNESSOFWALLSHALLBEPROVIDEDBELOWTHELINTELS.

7.TOPBARSHALLBEANCHOREDINTHESUPPORTEQUALTODEVEL -OPEMENTLENGTHFROMFACEOFSUPPORT

8.THISDRGSHALLNOTBEFOLLOWEDINLOCATIONSWHERETHE

HEIGHTOFWALLOVERLINTELISLESSTHAN0.86TIMESOF EFFECTIVESPANOFLINTEL(CLEARSPAN+DEPTHOF-SUCH

CASESLOADTRANSFER, FROMSLABSHALLALSOBECONSIDIFRED

(A) GENERAL NOTES::-

- i) ALLDIMENSIONSAREINMILLIMETRESANDLEVELSAREINMETRES(U.N.O)
- ii) ONLYWRITTENDIMENSIONSSHALLBEFOLLOWED.THEDRAWINGSSHALLNOTBESCALED.
- iii) ALLSTRUCTURALDRAWINGSSHALLBEREADINCONJUNCTIONWITHARCHITECTURAL
- iv) DISCREPANCYINDRAWINGSIFANYSHALLBEBROUGHTTOTHENOTICEOFTHE DESIGNOFFICEPRIORTOCONSTRUCTION.
- v) EXCUTIONOFR.C.C.WORKSSTRUCTURALSTEELWORKASPEROURDRAWINGSSHALLBE
- THERESPONSIBILITYOFSITEENGINEER

(B) SPECIFICATION NOTES FOR RCC WORKS:-

(CEMENT)

i) ORDINARYPORTLANDCEMENTSHALLBEUSEDFORALLCONCRETEWORKSUNLESS NOTEDOTHERWISE.

(GRADEOFCONCRETE)

- i) M20CONTROLLEDCONCRETEFORALLLIQUIDRETAININGSTRUCTURES.SPECIFIEDR.C.WORK
- ii) M20CONTROLLEDCONCRETEFORCOLUMN
- iii) MIX.M7.5FORP.C.CWORKORASMENTIONEDONRESPECTIVEDRAWING.
- iv) FORLIQUIDRETAININGSTRUCTURES&MASSCONCRETINGSFOLLOWINGASPECTSSHALLBE
- v) GIVENSPECIALATTENTIONWHILEDESIGNINGTHECONCRETEMIX.

1)GRADEOFCEMENT 2)HEATOFHYDRATION

3)PLASTICISERSORADDITIVESREQUIRED.

4)WATERCEMENTRATIO&CEMENTCONTENT

(E) 1.EXTRABAR 2.CONT.BAR 3.FLOORFINISHLEVEL

DEALT CHECKED APPROVED

<u>NORTH</u>

iii) B SPECIFICATIONFORWATERSTOP

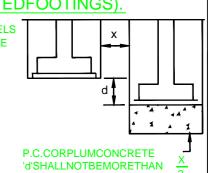
iv) 90% BEND AT THE END OF EVERYREINFORCING BAR SHALL BE PROVIDEDFORFOOTINGS, COLUMNS, BEAMS & SLABSUNOINTHEDRAWING.

WHEREACOLUMNATAPARTICULARFLOORISSMALLERTHANTHECOLUMN IMMEDIATELYBELOWITANDTHEOFFSETISLESSTHAN75mm,THENMAIN REINFORCEMENTINCOLUMNSHALLBEJOGGLEDTOCOMEWITHINTHE UPPERCOLUMN.THESLOPEOFTHEINCLINEDPORTIONOFBARSHALL NOTEXCEED1IN6ANDADDITIONALRINGSOF10mmO(2Nos)SHALLBE PROVIDEDATEACHPOINTOFKINK.

(REGARDINGLVLDIFFERENCEINFOUNDINGLVLS OFTWOADJACENTISOLATEDFOOTINGS)

THELEVELDIFFERENCEINFOUNDINGLEVELS OFTWOADJACENTFOOTINGSSHALLNOTBE MORETHANHALFTHECLEARDISTANCE **BETWEENADJACENTEXCAVATEDPITSOF** FOOTINGS.

IFLVLDIFFERENCEISMORETHANTHAT SPECIFIEDABOVE, EXTRALEVEL DIFFERENCESHALLBEMADEUP WITHP.C.CPLUMCONCRETEWITH PRIORAPPROVALOFDESIGNOFFICE. (SEEFIG.6)



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FOR APPROVAL

DESCRIPTION

REVISIONS

CLIENT:-

REV.

25.01.2020

ISSUED

IHARKHAND URBAN INFRASTRUCTURE DEVELOPMENT COMPANY LIMITED.

PROJECT:

CONSTRUCTION (INCLUDING STRUCTURAL DESIGN) OF 640 DWELLING UNITS IN 20 NUMBER OF G+3 BLOCKS (32 DU'S IN EACH BLOCKS) AT CHAS KALAPATHAR UNDER PRADHAN MANTRI AWAS UYOJNA (URBAN) (PACKAGE-K)

STRUCT	URAL DE	DATE	25.01.2020				
PURPOSE	FOR CON	NSTRUCTION		2010112020			
SCALE : SHEET :	1:100 A2	DRG TITLE -					
DEALT	SMS	PLAN FOR 8 DU's IN ONE FLOOR.					
CHECKED	PK						
APPROVED		DRG NO- RSA/ICUBED/PMA	Y/CHS/S1	ΓR/06	REV. R0		
	•	•					

M/s R.S. AGRAWAL INFRATECH PVT. LTD.

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NOTES FOR ROOF/PLINTH BEAM:-

- 1. ALL STIRRUPS ARE 2- LEGGED, UNLESS NOTED.
- 2. PROVIDE 2NOS. HORIZONTAL HOOKS FOR ROOF /PLINTH BEAM NEAR EXTERNAL COULUMNS
- 3. PROVIDE PROPER ANCHORED AS/DETAIL FOR ROOF/PLINTH BEAM.
- 4. PROVIDE COVER FOR ROOF/PLINTH BEAM-25 MM

LEGEND FOR SLAB:-

- 1. TOP REINFORCEMENT BAR
- 2. BOTTOM REINFORCEMENT BAR
- 3. TWO WAY SLAB
- 4. ONE WAY SLAB

