

VIJAY D. GAIKWAD
Engineers & Contractors
Karad, Dist. Satara
Cell no. 9423868041

VIJAYKUMAR PATIL
B. E. (CIVIL), MIE (INDIA), FIV
CHARTETED ENGINEER
13, Gajanan Nagari, Gorakhpur
Pirwadi, Satara.
Cell no. 9422039823

**Proposed Estimate for Warehouse for - VL & Sons Agro Food Producer Company Ltd.At- 835A,
Near Undale High School, Undale,Tal. Karad. Dist. Satara.**

<u>Quantity</u>	<u>Item</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
	Site Cleaning		L.S.	5000.00
104.89 Cum	Item No.1:- Excavation for foundation in earth,soil of all types, sand,gravel & Soft oft muram,including removing the excavated material upto a distance of 50 mtr beyond the building area p stacking& spreading as directed, dewatering, preparing the bed for for foundation and necessary back filling, raming watering including shoring & strutting etc complete. SSR Sr.No. 720 I. No. 21.03 BDA 1	306.00	cum	32096.34
820.02	Item No. 2 Filling in plinth and floors with Contractors soil sand or muram in 15 cm to 20 cm layers including watering and compaction complete. SSR Sr.No. 749 I. No. 21.37 BDA 11	213.00	Cum	174664.26
66.81 Cum	Item No.3 : Providing and laying in situ cement conc- rete in 1:4:8 of trap metal for foundation & bedding including bailing out water, form work compacting and curing complete. SSR Sr.No. 1371 I. No. 42.02 BDA 38	4824.00	Cum	322291.44

111.85 Cum	Item No. 4: Providing second class B.B. masonry in with conventional/IS type bricks C.M.1:4 in brick thick wall including mild steel longitudinal reinforcement of 2 bars of 6mm diameter/2 hoop iron strips 25 mm x 1.6 mm every third course property bent and bounded at ends scaffolding racking out joints watering etc. complete. SSR Sr.No. 1923 I. No. 51.110 BDg	8721.00	cum	975443.85
27.32 Cum	Item No. 5 : Providing and laying in situ Cement Concrete M -20 of trap/granite/quartzite/ gnesis metal for R.C.C. work in Beams like raft strip foundation, griling & footing of R.C.C. coloumn and steel stanchions etc. including bailing out water formwork, compaction and curing roughning the surface if special finish is to be provided(Excuding rainforcement and structural steel) A) Footing SSR Sr.No. 829 I. No. 25.11 BDF 3	6666.00	Cum	182115.12
47.68 Cum	B) Coloumn SSR Sr.No. 839 I. No. 25.13 BDF 5	12987.00	Cum	619220.16
49.28 Cum	C) Beam SSR Sr.No. 844 I. No. 25.50 BDF 6	11483.00	Cum	565882.24
9.750 M.T.	Item No. 6: Providing and fixing in position TMT-FE-500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wire sortack welding and supporting as required complete. SSR Sr.No. 869 I. No. 26.32 BDF 16	71778.00	M.T.	699835.50

	Item No. 7:			
461.64 Sq.m	Providing internal cement plaster 20mm thick in single coat in cement mortar 1:4 with out neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc.complete. SSR Sr.No. 958 I. No. 32.06 BDL 4	359.00	Sq.m	165728.76
767.64 Sq.m.	Item No. 8: Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15mm thick in cement mortar 1:4 using water proofing compound at 1 Kilogram per cement bag curing the same for notlessthan 2 day sand keeping the surface of the base coat rough to receie the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grain sand curing for fourteen days scaffolding etc. complete. SSR Sr.No. 956 I. No. 32.11 BDL 7	599.00	Sqm	459816.36
767.64 Sqm	Item No. 9: Providing and applying white wash new surfaces in two coats including scffolding, preparing the surface etc. SSR Sr.No. 1090 I. No. 36.02 BDP 1	7.00	Sqm	5373.48
767.64 Sq.m	Item No.10 :- Providing applying two coats of waterproof Cement paint of approved manufacture and approved colour to the plastered surfaces Including scaffolding if necessary cleaning and preparing the surfaces, watering for two days etc. complete. SSR Sr.No. 1076 I. No. 35.14	73.00	Sqm	56037.72
63.84 Sq.m	Item No.11 :- Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing wth plain / obscured glass panes 5mm thick and approved type and quality and iron oxidized fixture sand fastening oilpaint 2 coats etc. complete. SSR Sr.No. 1214 I. No. 39.29 BDT 53	3090.00	Sqm	197265.60
48.44	Item No. 12 :	4310.00	Sq.m	208754.89

Sq.m	<p>Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (Without mechanical gear) wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (Without mechanical gear)</p> <p>SSR Sr.No. 1209 I. No. 39.24 BDT 55</p>			
15.132 M.T.	<p>Item No.13 :- Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various span sin between trusses and in multi ples of standard length of baysas specified as per standrd specifications, inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, baseplates, nuts and bolts, welding where required etc.as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete.Spec. Number : As directed by Engineer-in-charge.</p> <p>SSR Sr.No. 815 I. No. 23.07 BDC</p>	100574.00	Sqm	1521885.77

475.27	Item No. 14 :-	1095.00	Sq.m.	520420.65
Sq.m	<p>Providing and fixing colour coated Zinc alume(R) AZ150 (min 150 gms /sq.mt. total one achside) profiled sheets forroofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5mmTCT), Histrength steel with min.550 MP ayield strength, metal lichotdipcoated with Aluminium Zincalloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with in organicpigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25u mexterior coat on top surface and nominal 10 umrever secoat on backsurface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30mm deep rib swith subtle square flutingin the five panatnominal 180-250 mm center-to-center. The end rib shall be designed forantica pillary groove. and returnleg. The feed material should have coil manufacturers product details marked a regular interval. Including fastener swith min. fastened with min.25um Zinc Tinalloy coated, Hexhead, self-drillingscrew etc. complete. (weight of profile 4.52 Kilogram/Square Metre)</p> <p>SSR Sr.No. 1172 I. No. 38.34 BDR</p>			

Total RS.	6711832.14
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Say Rs.	6711832.00
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Add 2.5 % for Electrification Rs.	167795.80
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Add 2.5 % for Sanitation Rs.	167795.80
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Total Rs.	7047423.60
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Say Rs.	7047424.00
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(Rupees Seventy Lac Forty Seven Thousand Four Hundred Twenty Four Only)

Gaikwad
Vijay D. Gaikwad
D.C.E. Civil
Consulting Engineer & Contractor
K.M.C. Lic. No. LE/18

Page 5 of 5



Checked and found correct.

VIJAY D. GAIKWAD

Engineers & Contractors

Karad, Dist. Satara

Cell no. 9423868041

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CHARTETED ENGINEER

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**Proposed Estimate for Warehouse for - VL Sons Agro Food Producer Company Ltd.At- 835A,
Near Undale High School, Undale, Tal Karad. Dist. Satara.**

Sr. No.	Particulars of items	No.	L	B	H	Q	Remark
1	Excavation for footing						
	C-1	20	1.8	2.1	1.2	90.72	
	C-2	7	1.5	1.5	0.9	14.175	
							104.895
2	Filling in plinth	1	35.82	11.74	1.95	820.02726	
3	P C C						
	C-1	20	2.1	1.8	0.15	11.34	
	C-2	7	1.5	1.5	0.15	2.3625	
	At plinth level	1	36.28	12.2	0.12	53.11392	
							66.81
4	B B Masonary						
	Up to P. L.	16	4.2	0.23	1.53	23.64768	
		4	5.65	0.23	1.53	7.95294	
	In superstructure	16	4.2	0.23	5.1	78.8256	
		4	5.65	0.23	5.1	26.5098	
							136.93
	Did. For shutter & Ventilator						
	RS-1	1	5	0.23	3	3.45	
	RS-2	3	4.2	0.23	2.4	6.9552	
	V-1	16	4.2	0.23	0.95	14.6832	25.08
	Total Qty						111.85
5	Cement concrete M-20						
	A- Footing						
	C-1	20	1.8	1.5	0.45	24.3	
	C-2	7	1.2	1.2	0.3	3.024	
							27.324
	B- Column						

	C-1	20	0.6	0.45	8.55	46.17	
	C-2	7	0.3	0.3	2.4	1.512	
							47.682
	C- Beam						
	GB-1	4	5.65	0.3	0.53	3.5934	
	GB-2	16	4.2	0.3	0.45	9.072	
	PL-3	7	11.6	0.3	0.53	12.9108	
	PL-4	1	4.2	0.3	0.45	0.567	
	PL-5	1	33.72	0.3	0.45	4.5522	
	TB-1	8	5.65	0.23	0.45	4.6782	
	TB-2	32	4.2	0.23	0.45	13.9104	
							49.28
6	Steel TMT-FE-500 27.32+47.68+49.28=124.2/100x78.5=97.56q					9.75 MT	
7	plaster Int.	2	11.74	1	6	140.88	
		2	35.82	1	6	429.84	570.72
	Did. For shutter & Ventilator						
	RS-1	1	5	1	3	15	
	RS-2	3	4.2	1	2.4	30.24	
	V-1	16	4.2	1	0.95	63.84	109.08
	Total qty.						461.64
8	Plaster Ext.	2	12.2	1	7.95	193.98	
		2	36.28	1	7.95	576.852	
	Column offset	36	0.37	1	7.95	105.894	876.72
	Did. For shutter & ventilator						109.08
	Total Qty.						767.64
9	White wash Same as Ext. Plaster					767.64	
10	Cement paint Same as whitewash					767.64	
11	Ventilators	16	4.2	1	0.95	63.84	
12	Rolling Shutter						
	Rs-1	1	5	1	3.64	18.2	
	Rs-2	3	4.2	1	2.4	30.24	48.44
13	Structural Steel						

14	Roofing	1	36.28	1	13.1	475.27
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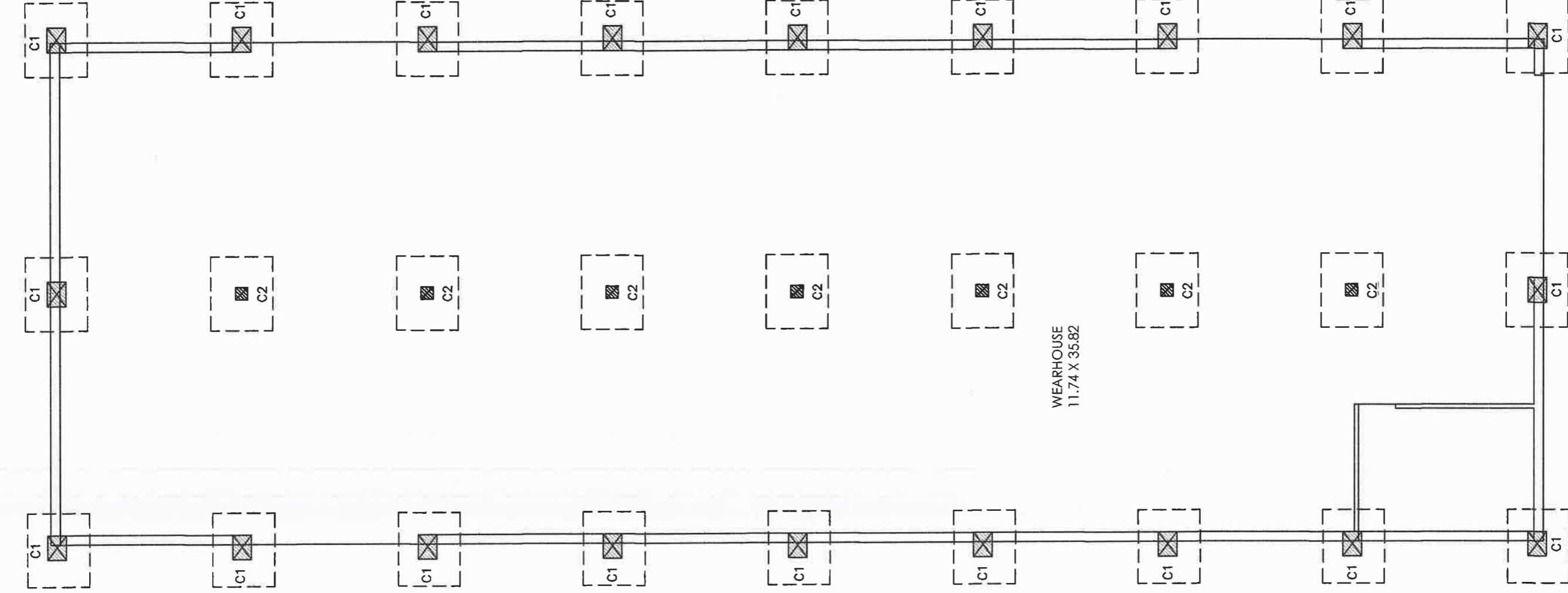
Paikw
Vijay D. Gaikwad
D.C.E. Civil
Consulting Engineer & Contractor
K.M.C. Lic. No. LE/18



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SCHEDULE OF FOOTINGS AND COLUMNS

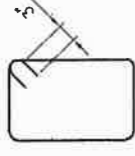
COLUMN NOS.	FOOTING		G. F. LVL. COLUMNS		STIRRUPS
	SIZE Short x Long side	DEPTH D	STEEL (both ways)	COL. SIZE	
C1	1500 x 1800	450	T 10 @ 150c/c	450 x 600	8-T16+6-T12 T8 @ 125c/c
C2	1200 x 1200	300	T 10 @ 150c/c	300 x 300	8 - T 12 T8 @ 125c/c



WEARHOUSE
11.74 X 35.82

LINK DETAILS

COLUMN SIZE NO OF BARS	300 X 300 8-T12	450 X 600 8-T16 + 6-T12



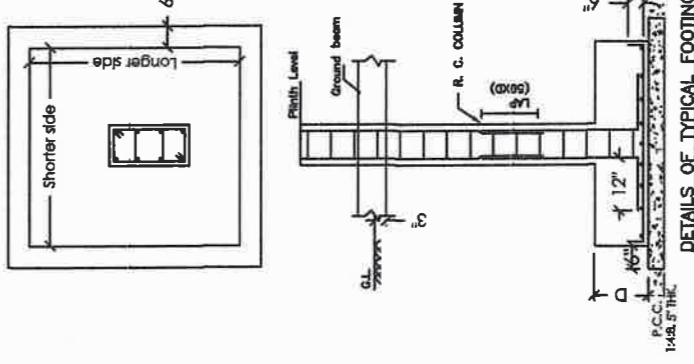
TYPICAL STIRRUP DETAILS
(PROVIDE 135° HOOK WITH 3" EXTENSION)

TECHNICAL SPECIFICATIONS:-

- BASIC REFERENCE CODE - I.S. 456 - 2000 FOR RCC & PCC
- I.S. 800 - 2008 FOR STRUCTURAL STEEL
- I.S. 10262 FOR CONCRETE MIX DESIGN
- I.S. 4926 FOR READY MIX CONCRETE
- CEMENT SHALL CONFORM TO PPC - IS 1489 PSC - IS 455
- FLY ASH SHALL CONFORM TO IS 3812
- GG68 SHALL CONFORM TO IS 12089
- STRUCTURAL STEEL SHALL CONFORM TO IS 2062 (GRADE-A)
- T - REPRESENTS HIGH YIELD STRENGTH DEFORMED BARS (H.Y.S.D.) SHALL CONFORM TO IS 1786-1985
- ALL CONSTRUCTION MATERIAL STRICTLY TESTED AS PER RELEVANT CODES BEFORE USE
- EXPOSURE CONDITION - MEDIUM

GENERAL NOTES:-

- ALL DIMENSIONS ARE IN MM. ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED. DO NOT SCALE THE DRAWING.
- ALL DIMENSIONS, LEVELS & CUTOUPS SHALL BE CHECKED & CORRECTED WITH ARCHITECTURAL PLANS
- MIX CONCRETE SHALL BE M20
- CONCRETE SHALL BE WEIGH/VOLUME BATCHED, MACHINE MIXED & MECHANICALLY VIBRATED TO ASSURE FULL COMPACTION
- H. Y. S. D. BARS SHALL BE Fe - 500 (TESTED)
- ONLY "VALID FOR CONSTRUCTION" DRG. SHALL BE USED FOR EXECUTION OF WORK
- ALL THE R.C.C./STRUCTURAL WORK SHALL BE EXECUTED STRICTLY UNDER COMPETENT TECHNICAL SUPERVISION SEPARATELY PROVIDED BY THE OWNER
- CLEAR COVER TO STEEL -
COLUMNS & SHEAR WALLS - 1.5' / 40 mm
FOOTINGS - 2' / 50 mm (BOTTOM) 2' / 50 mm - (SIDE & TOP)
BEAMS - 1.5' / 35 mm (BOTTOM) 1' / 25 mm - (SIDE & TOP)
SLAB - 1' / 25 mm (BOTTOM & TOP)
& SHOULD BE STAGGERED.
LAP LENGTH - 40 x BAR DIA.
- FOR ALL COLUMNS HAVING EIGHT OR MORE BARS, MASTER RING TO BE PROVIDED.
- ANY DISCREPANCY FOUND BETWEEN STRUCTURAL & ARCHITECTURAL DRAWING, SHOULD BE BROUGHT TO OUR NOTICE BEFORE THE WORK IS EXECUTED.
- APPLICATION OF OIL TO THE SHUTTERING IS NOT ALLOWED.
- QUALITY WORK PROCEDURES & SAFETY AT SITE ARE THE RESPONSIBILITIES SOLELY LIE WITH CONTRACTOR / BUILDER / OWNER. WE SHALL NOT BE RESPONSIBLE FOR POOR QUALITY OF STEEL, CONCRETE, CURING, SHUTTERING OR INCORRECT CONSTRUCTION PROCEDURE.
- REFER ARCHITECTURAL DRAWINGS WHERE-EVER NECESSARY.
- S. B. C. OF SOIL IS ASSUMED 400 KN/SQM (TO BE ASCERTAINED).
- DESIGN IS VALID FOR GROUND + ONE / TWO FLOORS ONLY (AS PER ARCHITECTURAL DRAWING).
- DEPTH OF EXCAVATION 1.2 M.



DETAILS OF TYPICAL FOOTING

Ajit

Ajit S. Patil
Structural Consultant

REVISION	DATE	DETAILS	REMARKS

PURPOSE OF ISSUE :-

FOR MUNICIPAL SUBMISSION		REV. NO.:	
ADVANCE COPY			
FOR SHUTTERING			
FOR CONSTRUCTION			
FOR TENDER			

DRN BY	DESIGN BY	CHKD BY	RECHKD BY	SCALE	DATE

VINOD	AJIT PATIL	AJIT PATIL	AJIT PATIL	NTS	DATE

CLIENT : VL & SONS AGRO FOOD PRODUCER COMPANY LTD.

ARCHITECT/ENGINEER : MR. VIJAY GAIKWAD

PROJECT :- PROPOSED WAREHOUSE AT UNDALE, TAL-KARAD DIST- SATARA, MAHARASHTRA

SHEET TITLE :- COLUMN & FOUNDATION DETAILS

DWG NO :- AFS/361/23-02-2023/D-01_01



AJIT. S. PATIL
M. E. (Structures)
Structural Consultant,
KOLHAPUR NAKA, KARAD.

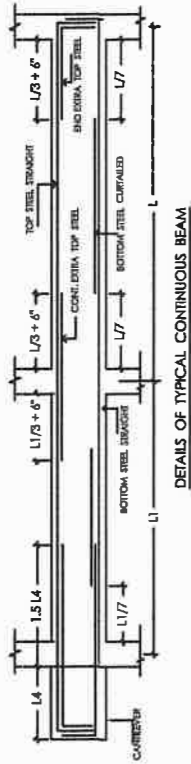
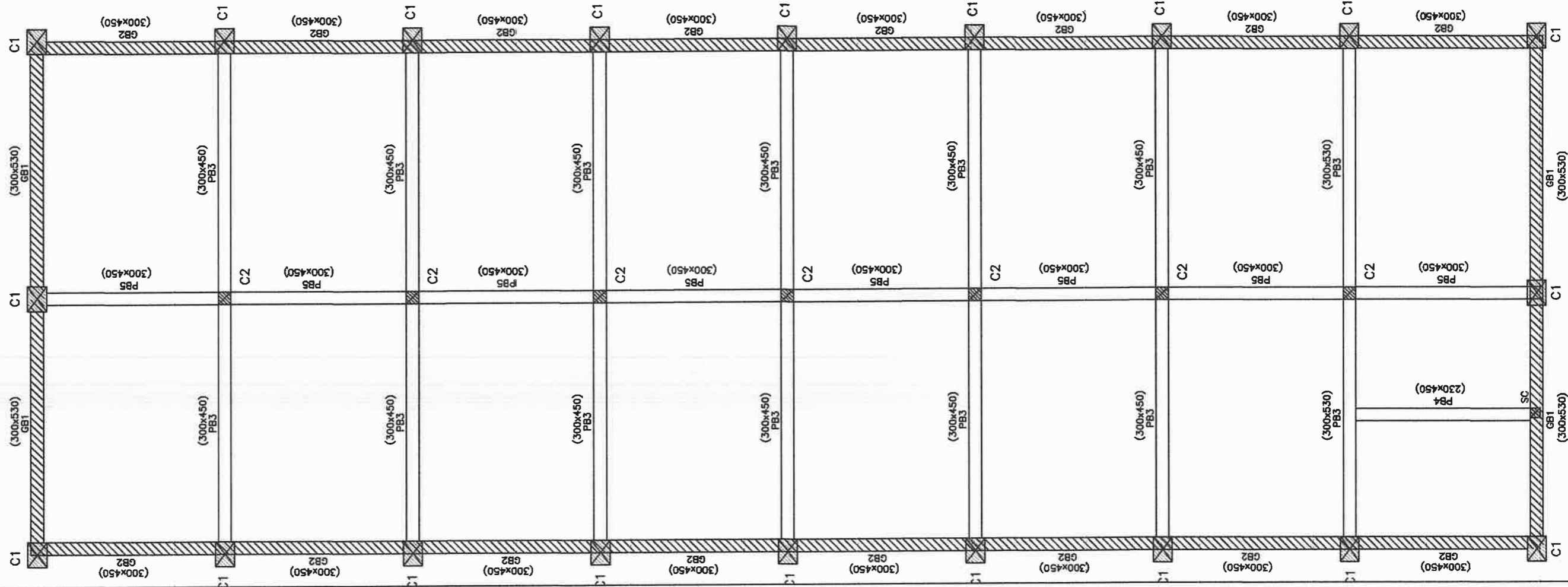
AJIT PATIL & ASSOCIATES
E mail - ajitpatil55@gmail.com

KEY PLAN FOR FOOTINGS
& COLUMNS.

WEARHOUSE PLAN

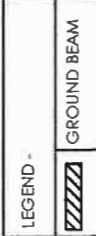
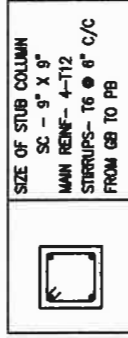
DETAILS OF GROUND & PLINTH BEAMS :

BEAM No.	SIZE	BOTTOM STEEL		TOP STEEL		EXTRA TOP STEEL		STIRRUPS (D-Beam depth)		REMARK
		STRAIGHT	CURTAIL L/7	STRAIGHT	END.L/3	CONT. L/3	NEAR SUPPORT 2XD	MIDDLE		
GB1	300 x 530	4 - T 16	-	2 - T 12	2 - T 16	2 - T 16	2 - T 16	T8 @ 100c/c	T8 @ 200c/c	
GB2	300 x 450	2 - T 16	1 - T 10	2 - T 12	2 - T 12	2 - T 12	2 - T 12	T8 @ 100c/c	T8 @ 200c/c	
PB3	300 x 530	3 - T 16	-	2 - T 12	2 - T 12	2 - T 12	1 - T 10	T8 @ 100c/c	T8 @ 200c/c	
PB4	230 x 450	2 - T 16	-	2 - T 12	-	-	-	T8 @ 100c/c	T8 @ 200c/c	
PB5	300 x 450	2 - T 16	-	2 - T 12	2 - T 12	2 - T 12	2 - T 12	T8 @ 100c/c	T8 @ 200c/c	



DETAILS OF TYPICAL CONTINUOUS BEAM

DETAILS OF STUB COLUMN



TECHNICAL SPECIFICATIONS-
 1. BASIC REFERENCE CODE - I.S. 456 - 2000 FOR RCC & PCC
 - I.S. 800 - 2008 FOR STRUCTURAL STEEL
 - I.S. 10262 FOR CONCRETE MIX DESIGN
 - I.S. 4926 FOR READY MIX CONCRETE
 2. CEMENT SHALL CONFIRM TO IS 3812
 3. FLY ASH SHALL CONFIRM TO IS 3812
 4. GRSS SHALL CONFIRM TO IS 12089
 5. STRUCTURAL STEEL SHALL CONFIRM TO IS 2062 (GRADE-A)
 6. T - REPRESENTS HIGH YIELD STRENGTH DEFORMED BARS (H.Y.S.D.)
 SHALL CONFIRM TO IS 1786-1985
 7. ALL CONSTRUCTION MATERIAL STRICTLY TESTED AS PER RELEVANT CODES BEFORE USE
 8. EXPOSURE CONDITION - MEDIUM

GENERAL NOTES-
 1. ALL DIMENSIONS ARE IN MM.
 ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED.
 DO NOT SCALE THE DRAWING.
 2. ALL DIMENSIONS, LEVELS & CUTOUTS SHALL BE CHECKED & CORRECTED WITH ARCHITECTURAL PLANS
 3. MIX CONCRETE SHALL BE M-20
 4. CONCRETE SHALL BE WEIGHT/VOLUME BATCHED MACHINE MIXED & MECHANICALLY VIBRATED TO ASSURE FULL COMPACTION.
 5. H. Y. S. D. BARS SHALL BE Fe - 500 (TESTED)
 6. ONLY VALID FOR CONSTRUCTION. DRG. SHALL BE USED FOR EXECUTION OF WORK.
 7. ALL THE R.C.C./STRUCTURAL WORK SHALL BE EXECUTED STRICTLY UNDER COMPETENT TECHNICAL SUPERVISION SEPARATELY PROVIDED BY THE OWNER
 8. CLEAR COVER TO STEEL -
 COLUMNS & SHEAR WALLS - 1.5' / 40 mm
 FOOTINGS - 2' / 50 mm (BOTTOM) 2' / 50 mm - (SIDE & TOP)
 BEAMS - 1.5' / 35 mm (BOTTOM) 1' / 25 mm - (SIDE & TOP)
 SLAB - 1' / 25 mm (BOTTOM & TOP)
 9. LAPS SHALL BE PROVIDED ONLY AT APPROVED LOCATIONS & SHOULD BE STAGGERED.
 LAP LENGTH - 60 x BAR DIA.
 10. FOR ALL COLUMNS HAVING EIGHT OR MORE BARS, MASTER RING TO BE PROVIDED.
 11. ANY DISCREPANCY FOUND BETWEEN STRUCTURAL & ARCHITECTURAL DRAWING, SHOULD BE BROUGHT TO OUR NOTICE BEFORE THE WORK IS EXECUTED.
 12. APPLICATION OF OIL TO THE SHUTTERING IS NOT ALLOWED.
 13. QUALITY WORK PROCEDURES & SAFETY AT SITE ARE THE RESPONSIBILITIES SOLELY LIE WITH CONTRACTOR / BUILDER / OWNER. WE SHALL NOT BE RESPONSIBLE FOR POOR QUALITY OF STEEL, CONCRETE, CURING, SHUTTERING OR INCORRECT CONSTRUCTION PROCEDURE.
 14. REFER ARCHITECTURAL DRAWINGS WHEREVER NECESSARY.

REVISION	DATE	DETAILS	REMARKS

PURPOSE OF ISSUE :-

FOR MUNICIPAL SUBMISSION		REV NO.	
ADVANCE COPY			
FOR SHUTTERING			RO
FOR CONSTRUCTION			22.02.2023
FOR TENDER			

DRN BY	DESIGN BY	CHKD BY	RECHKD BY	SCALE	DATE

VINOD	AJIT PATIL	AJIT PATIL	AJIT PATIL	NTS	22.02.23
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CLIENT : VL & SONS AGRO FOOD PRODUCER COMPANY LTD.

Ajit S. Patil
 Structural Consultant

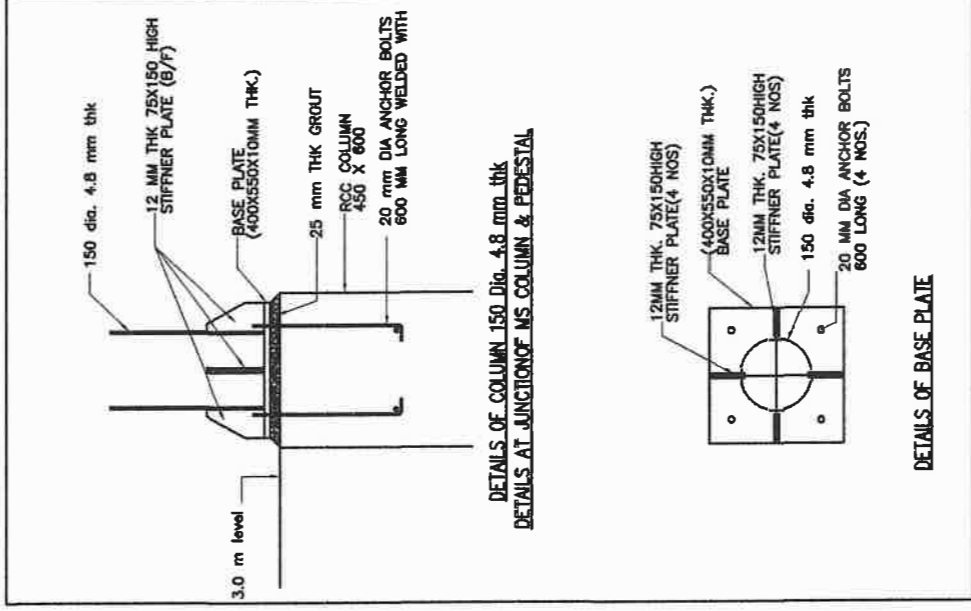
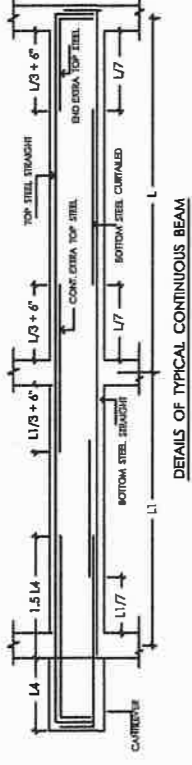
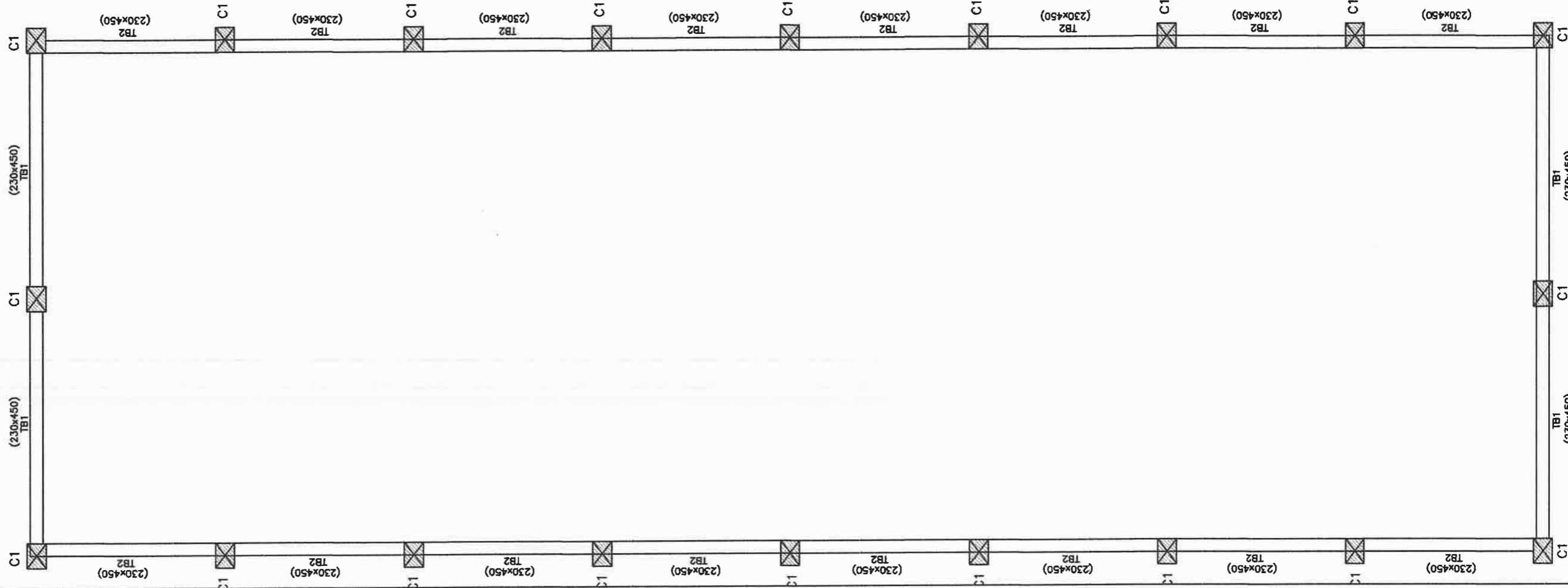
ARCHITECT/ENGINEER : MR. VIJAY GAIKWAD
 PROJECT :- PROPOSED WAREHOUSE
 AT UNDALE, TAL-KARAD
 DIST- SATARA, MAHARASHTRA
 SHEET TITLE :- LAYOUT & DETAILS OF GROUND/PLINTH BEAMS
 DWG NO :- APS/361/23-02-2023/D-02_01

AJIT. S. PATIL
 M. E. (Structures)
 Structural Consultant,
 KOLHAPUR NAKA, KARAD.
 E mail - ajitpatil55@gmail.com

KEY PLAN FOR GROUND BEAMS & PLINTH BEAMS

DETAILS OF TIE BEAMS :

BEAM No.	SIZE	BOTTOM STEEL		TOP STEEL	EXTRA TOP STEEL	STIRRUPS (D-Beam depth)		REMARK
		STRAIGHT	CURTAIL L/7	STRAIGHT	CONT. L/3	NEAR SUPPORT 2XD	MIDDLE	
TB1	230 x 450	4 - T 16	-	2 - T 12	2 - T 16	T8 @ 100c/c	T8 @ 200c/c	
TB2	230 x 450	2 - T 16	-	2 - T 12	2 - T 12	T8 @ 100c/c	T8 @ 200c/c	



TECHNICAL SPECIFICATIONS-

- BASIC REFERENCE CODE - I.S. 456 - 2000 FOR RCC & PCC
- I.S. 800 - 2008 FOR STRUCTURAL STEEL
- I.S. 10262 FOR CONCRETE MIX DESIGN
- I.S. 4926 FOR READY MIX CONCRETE
- CEMENT SHALL CONFIRM TO PPC - IS 1489 PSC - IS 455
- FLY ASH SHALL CONFIRM TO IS 3812
- GGBS SHALL CONFIRM TO IS 12089
- STRUCTURAL STEEL SHALL CONFIRM TO IS 2062 (GRADE-A) SHALL CONFIRM TO IS 1786:1985
- T - REPRESENTS HIGH YIELD STRENGTH DEFORMED BARS (H.Y.S.D.)
- ALL CONSTRUCTION MATERIAL STRICTLY TESTED AS PER RELEVANT CODES BEFORE USE
- EXPOSURE CONDITION - MEDIUM

GENERAL NOTES-

- ALL DIMENSIONS ARE IN MM. ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED. DO NOT SCALE THE DRAWING.
- ALL DIMENSIONS, LEVELS & CUTOUTS SHALL BE CHECKED & CORRECTED WITH ARCHITECTURAL PLANS
- MIX CONCRETE SHALL BE M-20
- CONCRETE SHALL BE WEIGH/VOLUME BATCHED, MACHINE MIXED & MECHANICALLY VIBRATED TO ASSURE FULL COMPACTION
- H. Y. S. D. BARS SHALL BE Fe - 500 (TESTED) ONLY. VALID FOR CONSTRUCTION DRG. SHALL BE USED FOR EXECUTION OF WORK.
- ALL THE R.C.C./STRUCTURAL WORK SHALL BE EXECUTED STRICTLY UNDER COMPETENT TECHNICAL SUPERVISION SEPARATELY PROVIDED BY THE OWNER
- CLEAR COVER TO STEEL -
COLUMNS & SHEAR WALLS - 1.5" / 40 mm
FOOTINGS - Z' / 50 mm (BOTTOM) Z' / 50 mm - (SIDE & TOP)
BEAMS - 1.5" / 35 mm (BOTTOM) 1" / 25 mm - (SIDE & TOP)
SLAB - 1" / 25 mm (BOTTOM & TOP)
LAPS SHALL BE PROVIDED ONLY AT APPROVED LOCATIONS & SHOULD BE STAGGERED.
LAP LENGTH - 60 X BAR DIA.
- FOR ALL COLUMNS HAVING EIGHT OR MORE BARS, MASTER RING TO BE PROVIDED.
- ANY DISCREPANCY FOUND BETWEEN STRUCTURAL & ARCHITECTURAL DRAWING, SHOULD BE BROUGHT TO OUR NOTICE BEFORE THE WORK IS EXECUTED.
- APPLICATION OF OIL TO THE SHUTTERING IS NOT ALLOWED. QUALITY WORK PROCEDURES & SAFETY AT SITE ARE THE RESPONSIBILITIES SOLELY OF CONTRACTOR / BUILDER / OWNER. WE SHALL NOT BE RESPONSIBLE FOR POOR QUALITY OF STEEL, CONCRETE, CURING, SHUTTERING OR INCORRECT CONSTRUCTION PROCEDURE.
- REFER ARCHITECTURAL DRAWINGS WHERE EVER NECESSARY.

REVISION	DATE	DETAILS	REMARKS

PURPOSE OF ISSUE :-		REV NO.
FOR MUNICIPAL SUBMISSION		
ADVANCE COPY		
FOR SHUTTERING		RO
FOR CONSTRUCTION	✓	22.02.2023
FOR TENDER		

DRN BY	DESIGN BY	CHKD BY	RECHKD BY	SCALE	DATE
VINOD	AJIT PATIL	AJIT PATIL	AJIT PATIL	NTS	22.02.23

CLIENT : VL & SONS AGRO FOOD PRODUCER COMPANY LTD.

ARCHITECT/ENGINEER : MR. VIJAY GAIKWAD

PROJECT :- PROPOSED WAREHOUSE AT UNDALE, TAL-KARAD DIST- SATARA, MAHARASHTRA

SHEET TITLE :- LAYOUT & DETAILS OF TIE BEAMS

DWG NO :- APS/361/23-02-2023/D-02_01

Ajit S. Patil
Ajit S. Patil
 Structural Consultant

AJIT. S. PATIL
 M. E. (Structures)
 Structural Consultant,
 KOLHAPUR NAKA, KARAD.
 E mail - ajitpatil55@gmail.com

AJIT PATIL & ASSOCIATES

d / data / 2023 / vijay gaiKWAD / dhananjay p

KEY PLAN FOR TIE BEAM
 AT 3.0 m AND 6.0 m LEVEL

CLIENT : VL & SONS AGRO FOOD PRODUCER COMPANY LTD.

Engineer - MR. VIJAY GAIKWAD

DETAILS OF ROOF TRUSS FOR WARE HOUSE , AT. - UNDALE, TAL - KARAD, DIST-SATARA



AJIT. S. PATIL
M. E. (Structures)
Structural Consultant,
MALKAPUR, KARAD.

E mail - ajitpatil55@gmail.com

DATE 22/02/2023

DRG. NO. Truss / 01.

DESIGN DATA: TRUSS SPACING - 4.2 M C/C
COLUMN HEIGHT - 6.0 M.
ROOFING - PRE-COATED SHEET

MEMBER	SECTION
A	ISA 65 X 65 X 6 - 2 NOS.
B	ISA 50 X 50 X 6 - 1 NOS.
C	ISA 50 X 50 X 6 - 2 NOS.
WIND BRACING - ISA 75X75X6	

Ajit S. Patil
Structural Consultant

- NOTES: 1. BASIC DESIGN CODE I. S. 800
2. ALL WELDS ARE 6 mm FILLET ALL AROUND.
3. MIN WELD LENGTH 200 mm. DIMENSIONS OF CONNECTION PLATES TO BE FINALIZED ACCORDINGLY.
4. SPAN & RISE OF TRUSS TO MEASURED ACTUALLY ON SITE BEFORE FABRICATION SO AS TO MATCH WITH EXISTING CENTER TO CENTER DISTANCES BETWEEN COLUMNS.
5. ALL DIMENSIONS ARE IN MILLIMETERS.

TRUSS TR1

DETAILS OF TRUSS TR-1

