

MATERIAL OF CONSTRUCTION:-

SHELL, ROOF, BOTTOM	A240 GR 304L
MANHOLE FLANGES	A240 GR 304L
NOZZLE PIPE	A312 TP 304L
NOZZLE FLANGES	A182 F 304L
GASKETS	ASBESTOS FREE C.F.
BOLTS	A193 GR B7
NUTS	A194 2H
SUPPORTS	-
INTERNALS	AISI - 304L

DESIGN DATA:-

DESIGN AND FAB. CODE: API 620	
OPERATING PRESSURE bar a	1.05
DESIGN PRESSURE bar g	0.1
OPERATING TEMPERATURE °C	32
DESIGN TEMPERATURE °C	50 (-20)
JOINT EFFICIENCY	0.7
RADIOGRAPHY	NIL
CORROSION ALLOWANCE m.m.	0.5
HYDRO TEST PRESS. bar g	7
PROCESS MEDIA	MSH
INSULATION HOT m.m.	60
EMPTY WEIGHT kg.	24000
DENSITY kg/m³	1100
WIND LOAD/SNOW LOAD kg/m²	80/75
HEAT TREATMENT	NIL
INSPECTION BY:-	ALIL
QUANTITY	1

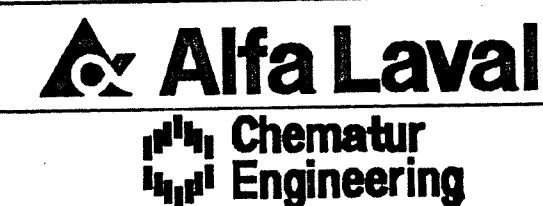
NOZZLE CONNECTIONS:-

NOZZLE MARK	SERVICE	SIZE NB.	NOZ. SCH.	PIPE/INSTR. NO.	NOZ. EL. FROM REF. LINE	REMARKS
L01, L02	LEVEL TRANSMITTER	80		L12044	500 / 8497	
LG01	LIGHT GLASS	200	80 S		9240	
LG02	LIGHT GLASS	200	80 S		9240	
M01	MANHOLE-ROOF WITH LIGHT GLASS	600	80 S		9290	
M02	MANHOLE-SHELL	600	80 S		500	
N01	MOL/3 INLET	150	80 S	20012	9010	
N02	MOL/2 INLET	150	80 S	20011	9010	
N03	AMML INLET	15	10 S	60011	9010	WITH DIPPED PIPE
N04	DFO INLET	15	10 S	60207	9010	
N05	CIP INLET	80	80 S	60411	8930	
N06	ODO OUTLET	300	80 S	20046	8930	
N07	YC INLET	300	80 S	20074	9010	WITH DIPPED PIPE
N08	MSH INLET	100	80 S	20015	9010	
N09	DFO INLET	20	10 S	60221	8930	
N10	OVERFLOW	300	80 S	20042	8347	
N11	MSH TO WATER-LOCK	200	80 S	20034	9010	
N12	MSH INLET	250	80 S	20033	7320	
N13	CIP INLET	25	10 S	60413	8930	
N14	AP INLET	150	80 S	20512	445	
N15	MSH OUTLET	250	80 S	20030	(-1110)	
N16	MSH OUTLET	150	80 S	20051	225	
N17	DMSH OUTLET	80	80 S	20130	515	
P01	PRESSURE GAUGE	25	10 S	20048/P12046	8930	
SG01	SIGHT GLASS	200	80 S		8880	
SG02	SIGHT GLASS	200	80 S		8347	
T01	TEMPERATURE GAUGE	1/2" NPT		T12048	1500	

GENERAL NOTES:-

- ALL DIMENSIONS ARE IN m.m. UNLESS OTHERWISE NOTED.
- WELDING AS PER ASME SECTION IX
- SURFACE TREATMENT SS:- PICKLED & PASSIVATED
CS:- PAINTED
- ALL FLANGES AS PER DIN2576 PN10, SOFF AND COUPLINGS AS PER ANSI B16.5 #3000.
- NOZZLES 40 NB AND BELOW SHALL BE PROVIDED WITH TWO NOS. STIFFENERS.
- INSULATION MATERIAL :- MINERAL WOOL 65 kg/m³ DENSITY.

S.NO	QTY	DESCRIPTION	MATERIAL	RAW MAT. DIM.	WT. kg~
6	1	PIPE FOR SPARGER (N16)	A312 TP 304L	65 NB SCH 10S x 36800 LG.	200
5	1	PIPE FOR SPARGER (N18)	A312 TP 304L	150 NB SCH 10S x 7800 LG.	110
4	12	CHANNEL FOR RAFTERS	AISI 304	ISM C150 x 3500 LG.	630
3	1	ROOF PLATE	A 240 GR 304L	#7762 x 5 THK.	1889
2	1	BOTTOM PLATE	A 240 GR 304L	#7679 x 8 THK.	2927
1	1	SHELL PLATE	A 240 GR 304L	9328 x 23587 x 8 THK.	13908



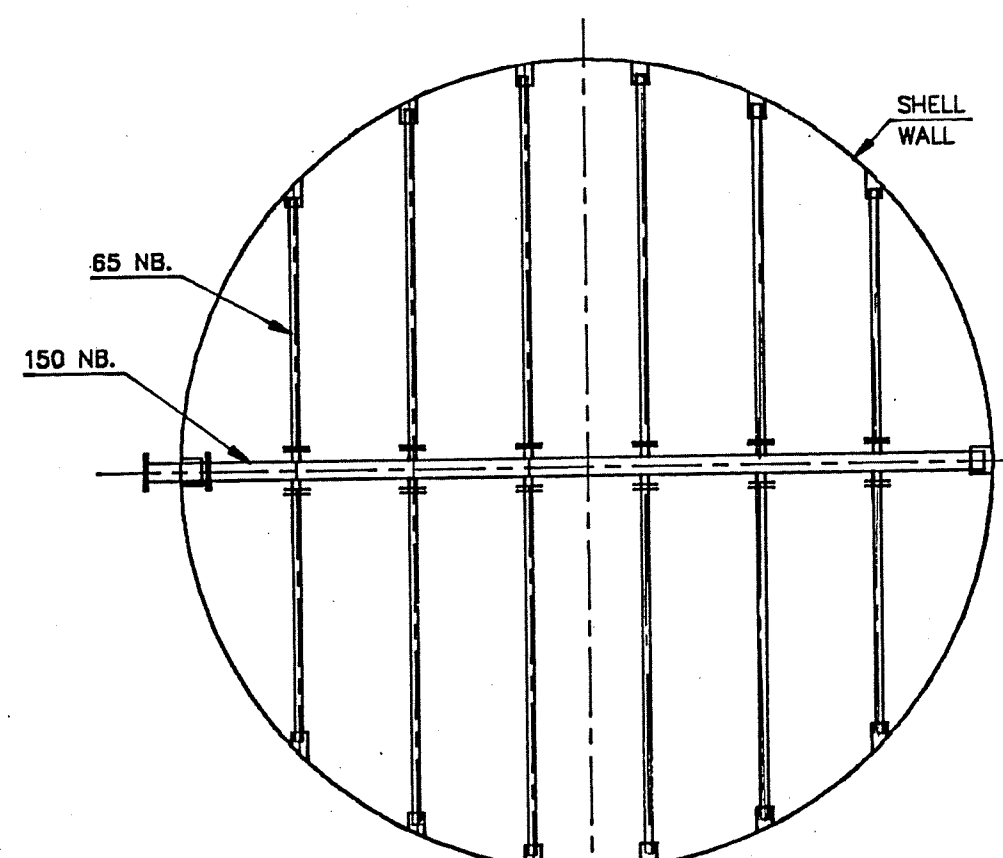
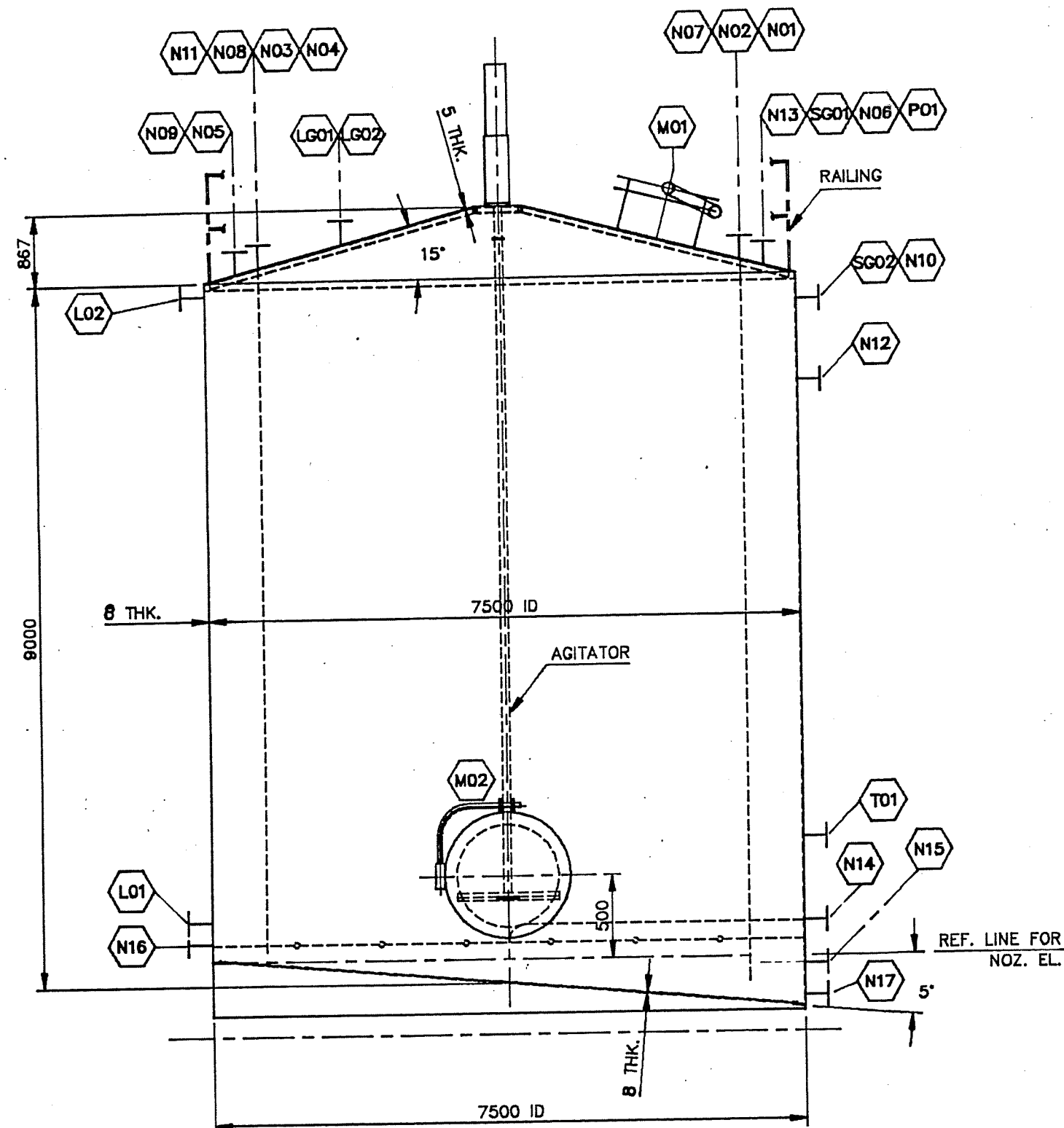
.. Project : 80-2009
.. Amasya Sugar Factory
.. Fermentation
.. Fermenter Tank - T2030
.. General Arrangement Drawing

Alfa Laval (India) Limited
Dapodi, Pune - 411 012, India

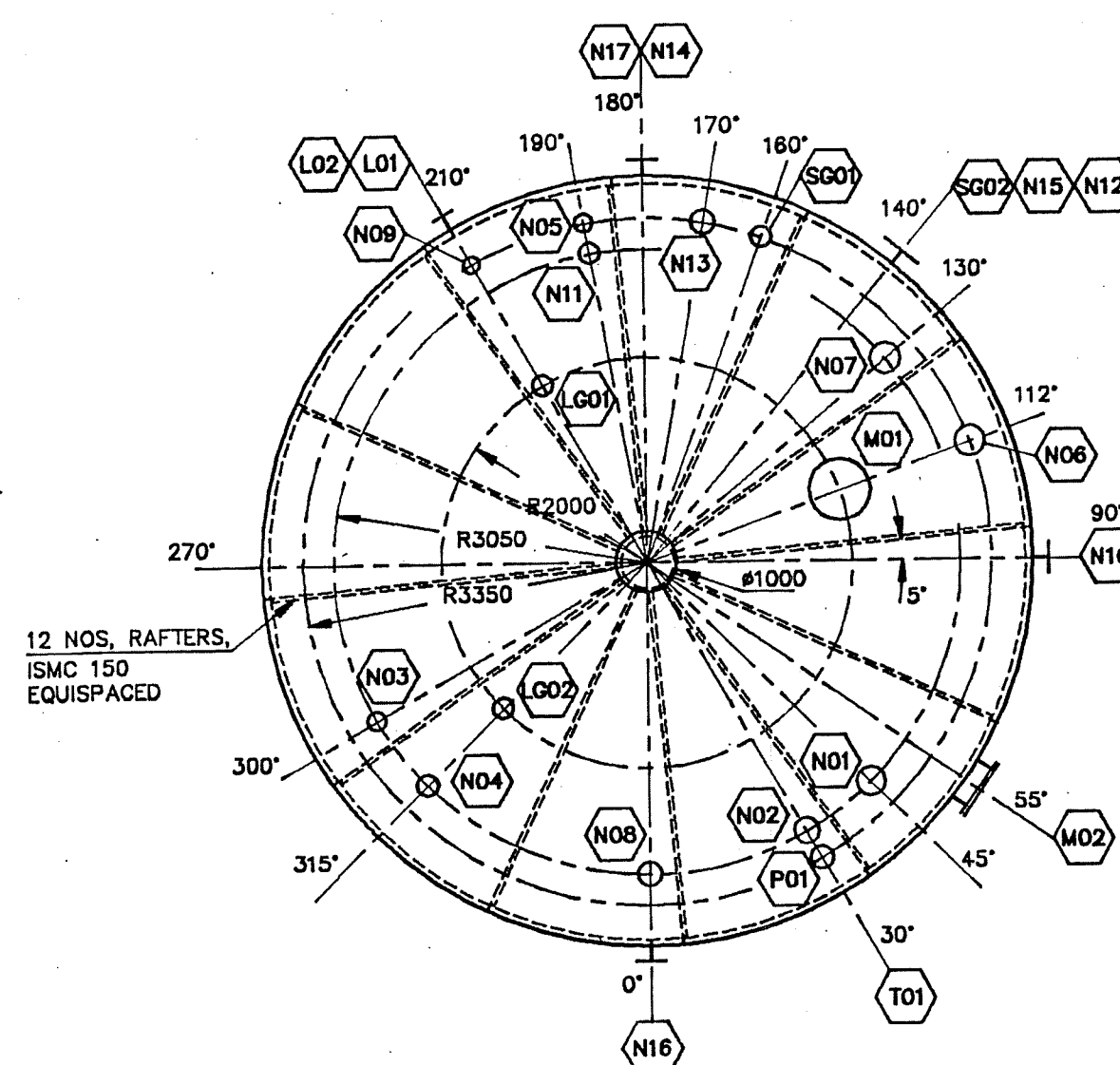
Appr. **NRS** Job No. **C79**
Checked **NRS** Scale **N.T.S.**
Drawn **C.S.** Date **31/03/94**

Dwg.No. **48 640189**

CADAM SERVICES, PUNE



SPARGER ARRANGEMENT AT N14



ORIENTATION PLAN

REV.	MODIFICATION	MADE BY	APR. BY
		DATE	DATE