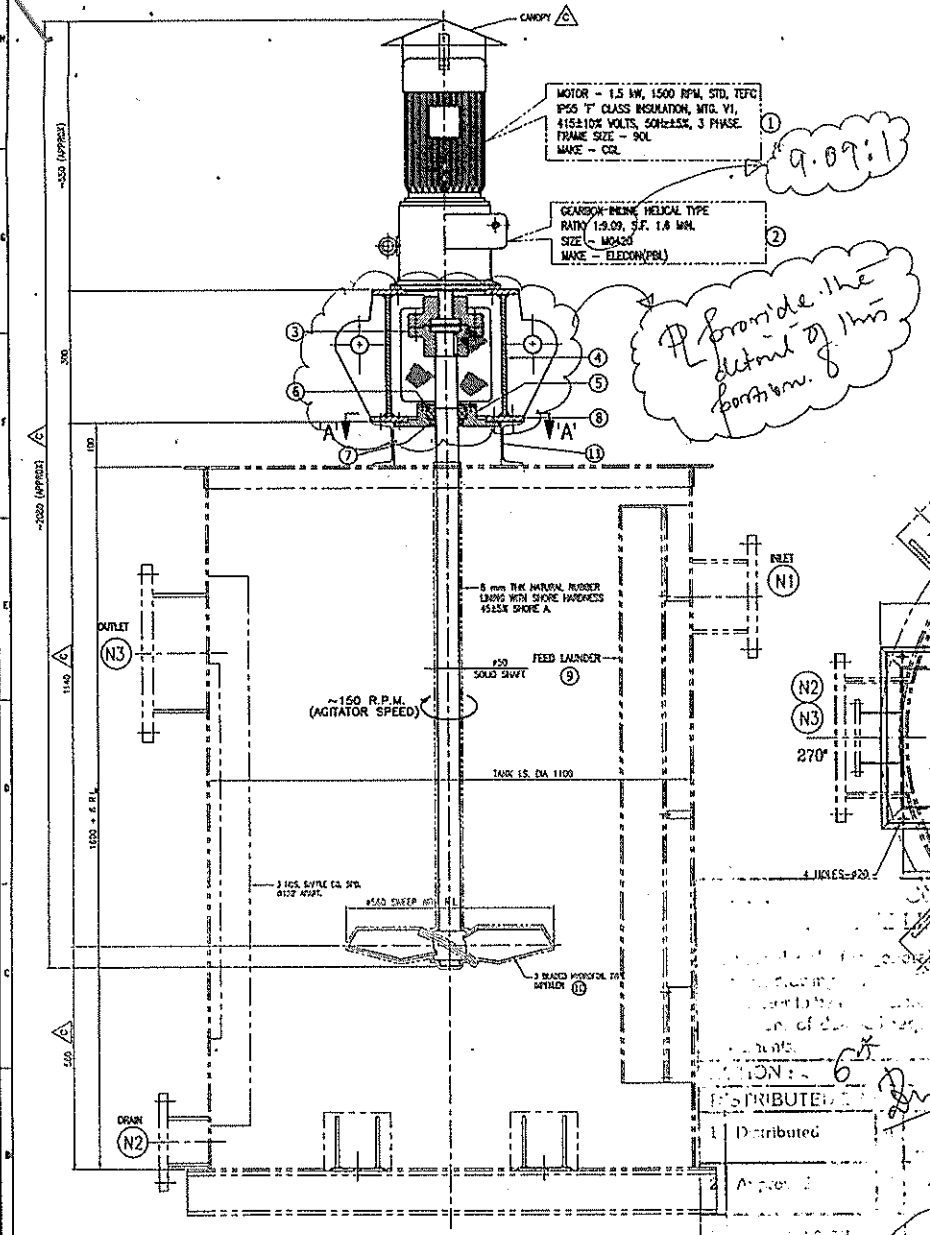
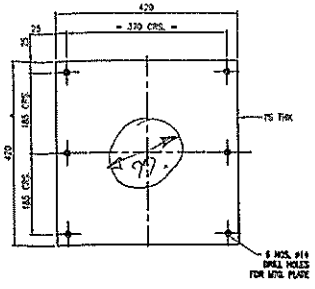
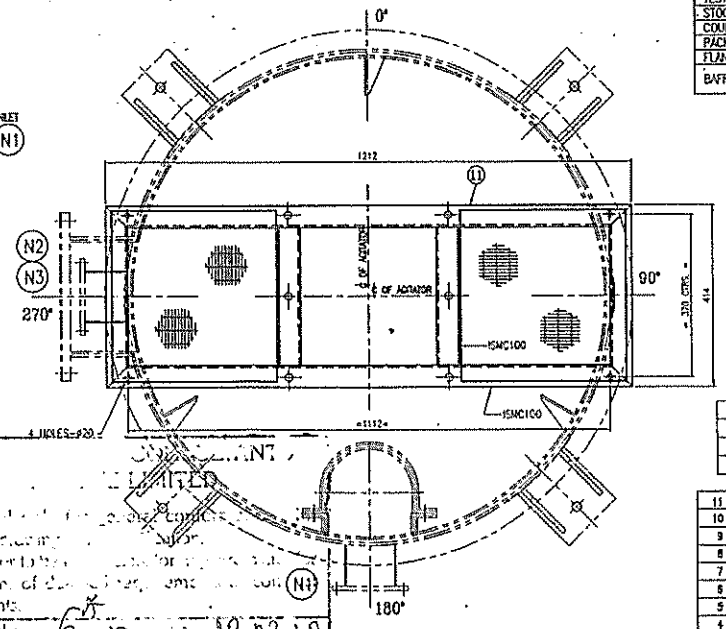


AGITATOR ASSEMBLY
(FOR TRUE ORIENTATION REF. PLAN VIEW)



MOUNTING PLATE DETAIL
(SECTION 'A:A')



AGITATOR SUPER STRUCTURE

GENERAL NOTES :-

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2. TOTAL WEIGHT OF AGITATOR IS 200 Kgs.(APPROX)
3. NO LOAD TEST IN AIR AT OUR WORKS.
4. IMPELLER STATICALLY BALANCED, DYNAMIC BALANCING OF IMPELLER NOT REQUIRED.
5. PAINTING DETAIL REFER LAYOUT ARRGT. DRG. NO. DEL-09.574-TK-611.
6. IMPELLER / SHAFT (PARTIAL) TO BE 6mm THK RUBBER LINED AS PER IS:4682, PART-1 HARDNESS 45±5° SHARE A.

NAME PLATE DETAILS	
MODEL NO.	KMXV-11/180/905
NO. OF UNITS	8 NOS.
SERIAL NO.	REF DEL-09.574-1.5-611
CLIENTS P.O. NO.	4520001730 & 4530002794
EQUIPMENT NO/S	6V-1A TO 6V-1H
MOTOR RATING	1.5 kW
SERVICE FACTOR	1.6 MIN.
OUTPUT SPEED	~ 150 RPM

STRUCTURAL LOADS	
MASS OF AGITATOR	APPROX 200 kgs
BENDING MOMENT OPERATING	528 Nm
DESIGN TORQUE OPERATING	187.11 Nm
DESIGN AXIAL LOAD	463 N
SHAFT DEFLECTION	1mm/Mtr

SPECIAL REQUIREMENTS	
MOTOR	CGL
PAINTING DETAIL REF DEL-09.574-TK-611	
TESTING	NO LOAD TEST
STOOL BASE	YES
COUPLING	RIGID
PACKING	STD.
FLANGE BOLT TORQUE	-
BAFFLES	92 mm WIDE/3 NOS.

TANK DETAILS	
SIZE	ø1100 x 1300mm+300 F.B. HT
PRODUCT	LEACHED URANIUM ORE SLURRY
SG.	(DESIGN) ~ 1.70
VISCOSITY (Cp)	10.00
MIN. OPENING REQ'D	ø1100
SEALING ARRG'T	NO
TYPE	OPEN TANK
PRESSURE	ATM.
TEMPERATURE	(DESIGN) MAX. 90°C

CONSTRUCTION MATERIALS	
COUPLINGS	CAST STEEL
SHAFT	EN 8+R.L.
IMPELLER	IS 2062 Gr.B+R.L.

IMPELLER DETAILS	
IMPELLER	1 NO.
TYPE	HYDROFOIL TYPE
NO OF BLADES	3
FITTING	WELDED CONSTRUCTION
STABILISERS	NO

CLIENT	URANIUM CORPORATION OF INDIA LTD.
PROJECT	URANIUM ORE PROCESSING PLANT AT TUMMALAPALLE,A.P.
CONSULTANT	DEVELOPMENT CONSULTANTS PVT. LTD.
CONTRACTOR	HINDUSTAN DORR-OLIVER LTD.

Item	Description	Qty	Mat'l	Remarks/Dwg No.
11	SUPER STRUCTURE - ISMC100	1	IS 2062 Gr.B	DEL-09.574-SS-611
10	IMPELLER - ø475 HYDROFOIL TYPE	1	IS 2062 Gr.B+R.L.	
9	AGITATOR SHAFT - ø50	1	EN 8 +R.L.	
8	MOUNTING PLATE - 420 x 420 x 15 THK	1	IS 2062 Gr.B	
7	OIL SEAL (BOTTOM) - 50 I/D x 72 O/D x 10 THK	1	IS 5129, TYPE A	
6	SPHERICAL ROLLER BRG. - 22210 (SKF/TAG)	1	STD.	
5	BEARING HOUSING - DELKOR STD.	1	IS 2062 Gr.B	
4	LANTERN STOOL - DELKOR STD.	1	IS 2062 Gr.B	
3	RIGID COUPLING - DELKOR STD.	1 SET	CAST STEEL	
2	GEAR BOX - REFER DETAIL	1	STD.	
1	MOTOR - REFER DETAIL	1	STD.	

BILL OF MATERIAL

DIMENSIONS WITHOUT LIMITS :
MACHINED UP TO 1000 +0.25 OVER 1000 TO 3000 0.5 OVER 3000 1.0
STRUCTURAL: UP TO 2000 +1 OVER 2000 TO 5000 1.5 OVER 5000 2.0
ANGULARITY: +1°

DISTRIBUTED

1	Distributed	provide comments as required
2	Approved	Approved. See accompanying letter.
		For information and records only.

TRANSMITTAL LETTER
CHEM/5935 dt. 12.03.10

D	C	B	A	REV.
CUSTOMER COMMENTS INCORPORATED	AGITATOR MOTOR HAS MACHINED & CUSTOMER COMMENTS INCORPORATED	ISSUED FOR APPROVAL		DESCRIPTION

DELKOR

CLIENT:- M/s. HINDUSTAN DORR-OLIVER LTD.

TITLE :- G. A. OF 1.5 kW TOP ENTRY AGITATOR (LEACH PULP FILTER)

TAG NO:- GAG-1A/C/E/G GAG-1B/D/F/H

MODEL NO. :- ----

DRN. BY.	JJM	29.10.2009	SCALE: NTS	DRG. NO.:- DEL-09.574-1.5-611	SHEET. 1 OF 1	REV A
CHD. BY.	GSK	29.10.2009				
APPD. BY.	SSJ	29.10.2009				

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