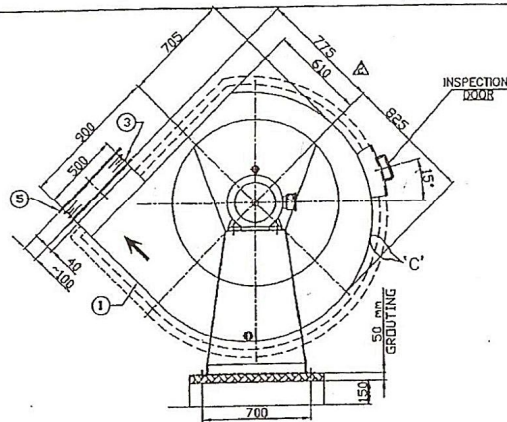
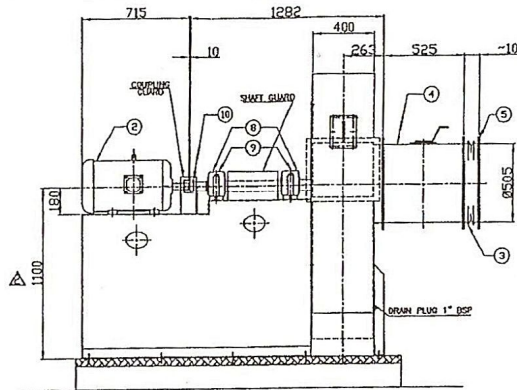


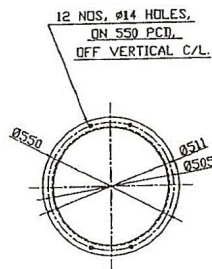
ECIBS - 3 - 50



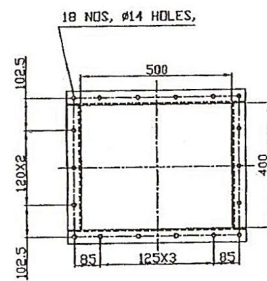
LOOKING FROM DRIVE END (R-45) A



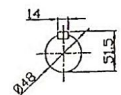
SIDE VIEW A



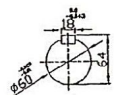
INLET FLANGE
SIZE: 40x5 SCALE 1.5:1



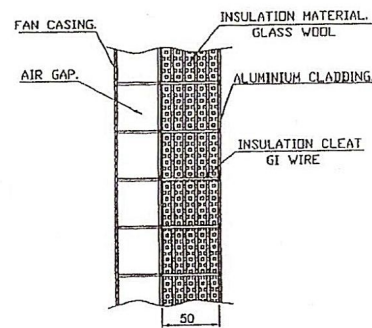
OUTLET FLANGE
ISA: 40x40x5 SCALE 2:1



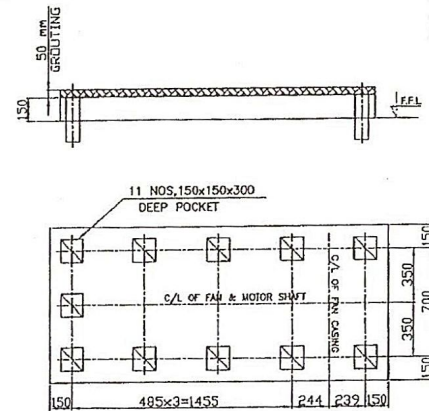
MOTOR SHAFT END
SCALE 5:1



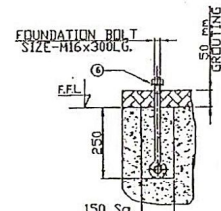
FAN SHAFT END
EN-8 SCALE 5:1



INSULATION DETAIL A
DETAIL - 'C'



F1 RCC (FOUNDATION) DETAIL



POCKET DETAIL FOR F-1 TYPE
(SCALE - NTS)

TECHNICAL DATA

AIR QUANTITY (m ³ /hr)	16500	IMPELLER DIA (M mm)	1100
STATIC PRESSURE (mmHg)	300	BEARING DIA/SIZE	170mm
TOTAL PRESSURE (mmHg)	334	INSPECTION DOOR	300x245
OPERATING TEMP. (°C)	50	STARTING TORQUE (kgm)	1.85
POWER CONSUMPTION @ 20°C KW	18.5	AXIAL LOAD TORQUE (kgm)	12.34
POWER CONSUMPTION @ 50°C KW	16.78	DAMPER TORQUE (kgm)	15.8
FAN SPEED (rpm)	1440	TOTAL EFFICIENCY (%)	90.4
CRITICAL SPEED (rpm)	2990	STATIC EFFICIENCY (%)	81.9
M.O.C. (STD 95, 1077 GR D, 13:150 GRA)			
FAN CASING THK. (MM)	4	CO ² VALUE (KCAL/M ³)	31.6
IMPELLER BACK PLATE THK. (MM)	5	STATIC LOAD (KGS) WITH MOTOR	4000
IMPELLER BLADES THK. (MM)	4	DYNAMIC LOAD (KGS) WITH MOTOR	11005
IMPELLER SHAFT THK. (MM)	25.10		

CUSTOMER SELECTION AREA

PLEASE TICK MARK (✓) & USE SUITABLE DIMENSION AS PER REQUIRED ORIENTATION
OUTLET ORIENTATION LOOKING FROM DRIVE END

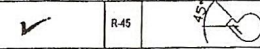


TABLE FOR FOUNDATION

MOUNTING TYPE	F1* GROUND OR TOP OF RCC
PLEASE TICK MARK (✓) REQUIRED FOUNDATION TYPE	✓

SCOPE OF SUPPLY

SERIAL NO.	DESCRIPTION	QTY.	MAKE/TYPE	SCOPE
01	FAN WITH INSPECTION DOOR AND DRIVE FLANGE	1	ECIBS-3-50	THERMAX
02	MOTOR 22 KW, 4 POLE, 50-160L	1	WATCO	THERMAX
03	FLEXIBLE CONNECTION INLET & OUTLET	1	PARI	THERMAX
04	INLET BUTTERFLY DAMPER	1	C.S.	THERMAX
05	INLET AND OUTLET MATCHING FLANGES	1	C.S.	THERMAX
06	FOUNDATION BOLTS M16x300 L.G.	11	C.S.	THERMAX
07	BEARING 170mm (221603)	2	NOS. 507/16	THERMAX
08	FLAMER ROCK (EN 511)	2	NOS. 100/1/250	THERMAX
09	COUPLING WITH COUPLING GUARD (T250)	1	FURNER	THERMAX
10	INSULATION	1	GLASS WOOL	THERMAX

SCOPE OF MOTOR

THERMAX	CUSTOMER
✓	

PAINTING

INDOOR & OUTDOOR SURF. PAINTS TO IS 3:1 (NON WHITE COLOUR)
2 COATS OF EPOXY PRIMER PAINT FROM PRIMER. DFT IS 30 MICRONS/COAT
OUTSIDE : 2 COATS OF EPOXY PRIMER PAINT FROM PRIMER. DFT IS 30 MICRONS/COAT
ONE COAT OF ACRYLIC POLYURETHANE DFT IS 30 MICRONS/COAT
FINISH SHADE : SHADE GREY
TOTAL DFT 180 MICRONS ON OUTSIDE

- NOTES : 1) FAN APPLICATION :- 1) FAN AFTER INSULATION
2) FAN TYPE : BACKWARD CURVED BLADES
3) THE TOLERANCE ON PERFORMANCE IS AS PER IS 6081-1987
4) VIBRATION PRIMER SHALL BE AS PER IS 1021 FROM GRADE D13 (D13 VELOCITY : 1.5 mm/sec)
5) IMPELLER SHALL BE 200°C. ALL IN DIMENSIONAL DRAWING AS PER IS 1001/190 OR 4.3
6) SOUND LEVEL :- 85 DBA AT 1.5 MTR. DISTANCE
7) ALL IMPELLERS SHALL BE GALVANIZED/ZINC PLATED AS PER IS 1317 OR 1.4
8) ALL IMPELLERS & POCKET OF HIGH ACCELERATION MATERIAL
9) INLET AND OUTLET FLANGES ARE NOT DESIGNED TO TAKE ANY EXTERNAL LOAD
10) ONE WORK DRAWING IS PICTORIAL ONLY, THERMAX IS NOT RESPONSIBLE FOR ONE. DESIGN
11) ILLUSTRATION DETAIL : CREASE - SERRATED (D13/D13) IMPELLER
CREATING INTERNAL RIB 1/16"
REPLACEMENT INTERNAL OF CREASE 8000 IN.

OC NO : E140233

BAGFILTER : TK-120-300

CUST TAG NO. : 11F-1B

THERMAX EQPT NO. : BF1

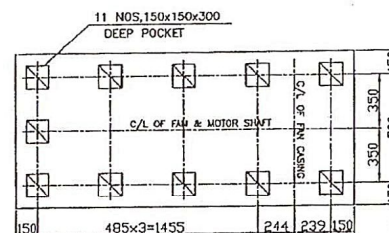
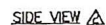
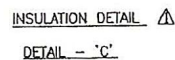
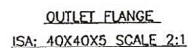
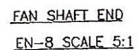
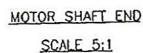
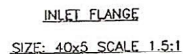
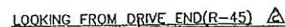
CLIENT	URANIUM CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)
PROJECT	URANIUM ORE PROCESSING PLANT AT TUMMALAPALLE, AP. PKG. NO. UCTL-2
CONSULTANT	DEVELOPMENT CONSULTANTS PVT. LTD.
EPC / TURNKEY CONTRACTOR	INDUSTRIAL DOOR - OVERSEAS LTD. INDUSTRIAL DOOR - OVERSEAS LTD. INDUSTRIAL DOOR - OVERSEAS LTD.
THERMAX SPECIFICATION NO. - EFAM990017	
THERMAX LIMITED INDUSTRIAL DOOR - OVERSEAS LTD.	
GA AND FOUNDATION DETAIL FAN MODEL - ECIB-3-50	
REV. NO. 01	
REV. NO. 02	
REV. NO. 03	
REV. NO. 04	
REV. NO. 05	
REV. NO. 06	
REV. NO. 07	
REV. NO. 08	
REV. NO. 09	
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REV. NO. 96	
REV. NO. 97	
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REV. NO. 99	
REV. NO. 100	

APPROVED
HINDUSTAN DOOR OVERSEAS LTD.
MUMBAI

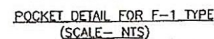
No 2090127

- 4 AU

DIMENSION	GENERAL TOLERANCE									
	0 - 10	11 - 50	51 - 100	101 - 500	501 - 1000	1001 - 3000	ABOVE 3000			
FABRICATION	± 0.5		± 1.5	± 2.0	± 3.0	± 4.0	± 6.0			
FINISH										
ASSEMBLY										



F1 RCC (FOUNDATION) DETAIL



APPROVED

HINDUSTAN DYEING & TEXTILES LTD
MUMBAI.

NR QUANTITY (m3/hr)	16500	AMPLIFIER (A, m. mm)	#1000
STATIC PRESSURE (mmwg)	300	REFLECTOR (A/USE)	#7000
TOTAL PRESSURE (mmwg)	336	REFLECTION DOOR	3.0625
OPERATING TEMP.(°C)	59	STARTING TORQUE (kgm)	100.24
POWER CONSUMPTION @ 250 C.W	18.5	FULL LOAD TORQUE (kgm)	12.54
POWER CONSUMPTION OPT. kW	16.78	DAMPER TORQUE (kg.m)	13.38
FAN SPEED (rpm)	1440	TOTAL EFFICIENCY (%)	81.4
CIRCUIT CRITICAL OPT.	2290	STATIC EFFICIENCY (%)	96.9
MACHINE DATA: 1075 (A, B, C) 1340 (A, B, C)			
FAN DESIGN T.K. (MM)	4		
IMPELLER BACK PLATE T.K. (MM)	5	CO-2 VALVE (TICKS)	31.65
IMPELLER SHROUD T.K. (MM)	4	STATIC LOSS (MGSS) WITH MOTOR	
IMPELLER BACK T.K. (MM)	3.0	DYNAMIC LOSS (MGSS) WITH MOTOR	=1100

PLEASE TICK MARK (✓) & USE SUITABLE DIMENSION AS PER REQUIRED ORIENTATION
OUTLET ORIENTATION LOOKING FROM DRIVE END

✓	R-45	45°
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MOUNTING TYPE	'F'1 GROUND OR TOP OF RCC
PLEASE TICK MARK (✓) REQUIRED FOUNDATION TYPE	✓

SR.NO.	DESCRIPTION	QTY.	MATERIAL TYPE	SCOPE
01	FAN WITH REGULATION DOOR AND DRAIN PLUG	1	ECIR-3.5 MS	TERMINAL
02	MOTOR 22 KW, 4 POLE, 50-160L	1	INDIAN MOTOR (IMPORT)	TERMINAL
03	FLOODING CONNECTION INLET & OUTLET	1 PAIR	C.S. (LOCAL/IMPORTED)	TERMINAL
04	INLET INTERRUPTER DAMPER	1	C.S.	TERMINAL
05	INLET AND OUTLET CONNECTION FLANGES	1 PAIR	C.S.	TERMINAL
06	FOUNDATION ROCKETS WITH 200KG.	1	C.S.	TERMINAL
07	60/90W 8/10mm (221623)	2 NRS.	SC /TIG	TERMINAL
08	FLAMMER BLOCK (ON 518)	2 NRS.	WOLFG/SHR	TERMINAL
09	FLAMMER WITH COUPLING DOWEL (7020)	1	FLAMMER	TERMINAL
10	RESISTION	1	CLASS WOL	TERMINAL

THERMAX	CUSTOMER
✓	X

INSIDE & OUTSIDE: SHOT BLASTING TO SA 2 1/2 (MEDIUM WHITE CONDITION)
 2 COATS OF EPOXY BASED ZINC RICH PRIMER: DFT 25 MICRONS/COAT
 OUTSIDE : 2 COATS OF EPOXY GLOSSY FINISH: DFT 50 MICRONS/COAT
 ONE COAT OF ACRYLIC POLYURETHANE: DFT 35 MICRONS/COAT
 FINISH SHADE : SHADOK GREY
 TOTAL DFT 185 MICRONS ON OUTSIDE

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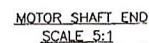
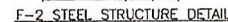
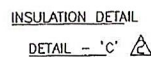
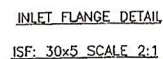
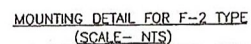
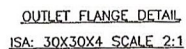
BAGFILTER: TK-120-300
THERMAX EQPT NO.: BF1

01 /	002 REVISED AND PER CURE CONSULTS DTD 02-11-9	02-11-9	APPROV		EC-390304	REV. NO. 03
REVISED	ALLOCATION	DATE	THRU			

ECMB-1-20-53

DESIGN	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1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GENERAL TOLERANCE												
DIMENSION	0	10	11	50	51	100	101	500	1000	1600	3000	ADDITIONAL
FABRICATION	± 0.5				± 1.5	± 2.0	± 2.0	± 3.0	± 4.0	± 6.0		
MACHING	± 0.1	± 0.2			± 0.3	± 0.5	± 0.5	± 0.8	± 1.2	± 2.0		



110 2090127
4 AUG 20

APPROVED
HINDUSTAN DOIR OLIVER LTD.
MUMBAI

NA QUANTITY (m3/hr)	3000	IMPELLER DIA. (mm)	#535
STATIC PRESSURE (mmHg)	250	INSPECTION DOOR	100x150
TOTAL PRESSURE (mmHg)	287	STARTING TORQUE (kgm)	0.21
OPERATING TEMP.(°C)	50	FULL LOAD TORQUE (kgm)	1.37
POWER CONSUMPTION @ 20°C K1F	4	WASHER TORQUE (kg.m)	0.37
POWER CONSUMPTION OPT. TEMP KW	3.63	TOTAL EFFICIENCY (%)	68.9
FAN SPEED (rpm)	2800	STATIC EFFICIENCY (%)	59.7
CRITICAL SPEED (rpm)	5180		
M.O.C./T.R.:15.1079.16.2052.GR2			
FAN CASING THK. (MM)	2.5		
IMPELLER BACK PLATE THK. (MM)	2.5	CD 4 VALUE (KG/CM²)	2.2
IMPELLER SHAFT THK. (MM)	2.5	STATIC LOAD (KG/CM²) (WITH MOTOR)	~280
IMPELLER BUOIDS THK. (MM)	2.5	DYNAMIC LOAD (KG/CM²)	~1364

L-45		✓
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MOUNTING TYPE	"FZ" STEEL STRUCTURE
PLEASE TICK MARK (✓) REQUIRED FOUNDATION TYPE	✓

SR.NO.	DESCRIPTION	QTY. NOS	MAKE/TYPE	SCOPE
01	FAN WITH INSPECTION DOOR AND BRAIN PLUG	1	EDCO-1, 50-53 C.S.	TIERSHAW
02	MOTOR 5.5 KW, 2 POLE, 50 HZ	1	ABB/CGI ENERGY EFFICIENT	TIERSHAW
03	FLEXIBLE CONNECTION INLET & OUTLET	1 PAIR	CORNING/ALCOA	TIERSHAW
04	INLET BUTTERFLY DAMPER	1	C.S.	TIERSHAW
05	INLET AND OUTLET MANHOLE FLANGES	6	1 INR	C.S.
06	ACCOUNTING BOLTS W/SHOULDER WITH W/IF & WASHER FOR F-2 ONLY	1	C.S.	TIERSHAW
07	VERSHON BRULATOR WITH SHUT & WASHER FOR F-2 ONLY	6	PRIMO/PRU-A	TIERSHAW
08	RESISTOR	1	GLASS W/AL	TIERSHAW




THERMAX	CUSTOMER
✓	X

INSIDE & OUTSIDE: SHOT BLASTING TO SA 2 1/2 (NEAR WHITE CONDITION)
2 COATS OF EPOXY BASED ZINC RICH PRIMER: DFT 25 MICRONS/COAT
OUTSIDE : 2 COATS OF EPOXY GLOSSY ENAMEL: DFT 50 MICRONS/COAT
ONE COAT OF ACRYLIC POLYURETHANE: DFT 35 MICRONS/COAT
FINISH SHADE : SMOKE GREY
TOTAL DFT 185 MICRONS ON OUTSIDE

NOTES :

- 1) FAN APPLICATION : - ON FAN AFTER DRAFTER
- 2) FAN TYPE : BLOWN CURT BLADES.
- 3) THE TOLERANCE ON PERFORMANCE IS AS PER IS-6484-1982
- 4) VELOCITY RANGE SHALL BE AS PER IS-6048-1986 DRG D3 (BMS Velocity : 2.5 m/sec)
- 5) FANETTER SHALL BE OF THE TYPE STANADARDLY PLAINED AS PER ISO-10130 OR I.3
- 6) SOUND LEVEL - 90 dBA AT 1.5 MTS. DISTANCE.
- 7) ALL FASTENERS SHOULD BE GALVANIZED/ ZINC PLATED AS PER IS-1587 GR.6.6
- 8) ALL CASSETT & FANING TO BE W/ W/STERS MATERIAL
- 9) PAINT AND COATED PLACES ARE TO BE MAINTAINED TO TAKE ANY EXTERNAL LOAD.
- 10) CIVIL WORK SHOWN IS PICTORIAL ONLY. THEREAS IS NOT RESPONSIBLE FOR CIVIL DESIGN.
- 11) LUBRICATION DATA : - GRASE - SEAGRO/EPD/ALPHALUX
 GREASING INTERVAL 800 Hrs.
 REPLACEMENT INTERVAL OF GREASE 6000 Hrs.

OC NO:- 140233

CLIENT	 URANIUM CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)		
PROJECT	URANIUM ORE PROCESSING PLANT AT THUMMALAPALLE, A.P. PKG.NO. UCTL-2		
CONSULTANT		DEVELOPMENT CONSULTANTS PVT. LTD.	
EPIC / TURNKEY CONTRACTOR	 DOR-OLIVER HINDUSTAN ROPE-OLIVER LTD. ENGINEERING DIVISION NEW DELHI - CHENNAI - BANGALORE - BIRMINGHAM		HOOL 50 NO.

THERMAX SPECIFICATION NO.- EFAM990018

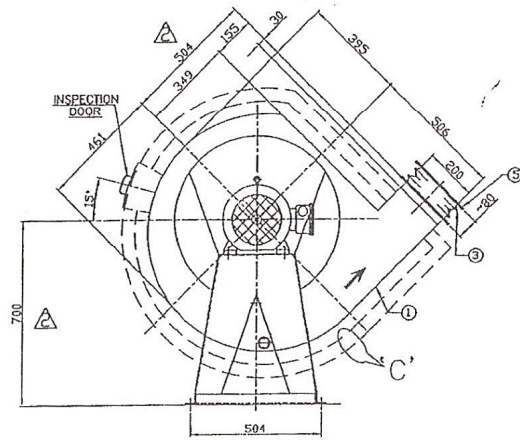
THERMAX LIMITED
EMRO DIVISION

G.A. AND FOUNDATION DETAIL
FAN MODEL- ECHB-1-20-53

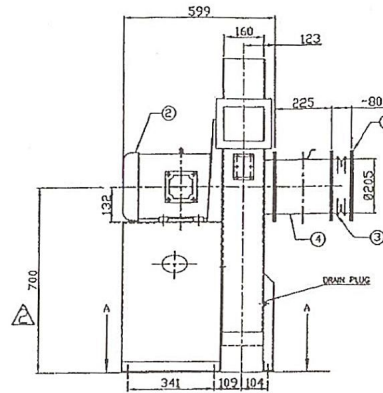
E. P. CORBIN, JR.
NO. 17 TRIANGLE GOOITES ALTERNATE
WORK TO THE DIMENSION
BREAK SHARP EDGES
ALL DIMENSIONS ARE IN INCH.

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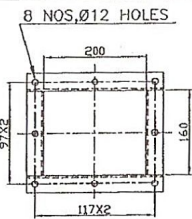
EC4B - 1-20-53



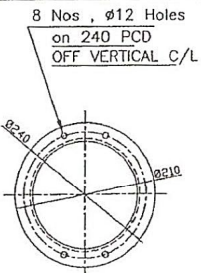
LOOKING FROM DRIVE END (L-45) A



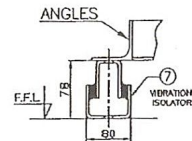
SIDE VIEW



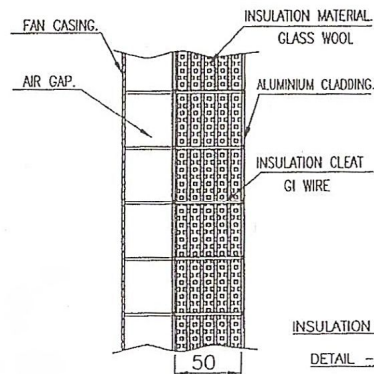
OUTLET FLANGE DETAIL
ISA: 30X30X4 SCALE 2:1



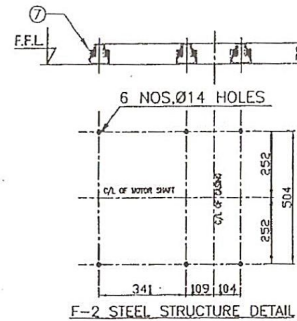
INLET FLANGE DETAIL
ISF: 30x5 SCALE 2:1



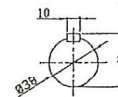
MOUNTING DETAIL FOR F-2 TYPE
(SCALE - NTS)



INSULATION DETAIL
DETAIL - 'C' A



F-2 STEEL STRUCTURE DETAIL



MOTOR SHAFT END
SCALE 5:1

APPROVED

HINDUSTAN BOHR-OLIVER LTD.

TECHNICAL DATA

AR QUANTITY (m ³ /hr)	3000	IMPELLER DIA (mm)	#535
STATIC PRESSURE (mmwg)	250	INSPECTION DOOR	100X150
TOTAL PRESSURE (mmwg)	287	STARTING TORQUE (kgm)	0.21
OPERATING TEMP (°C)	50	FINAL LOAD TORQUE (kgm)	1.37
POWER CONSUMPTION @ 20°C K ₉	4	DAMPER TORQUE (kgm)	0.37
POWER CONSUMPTION OPT. TEMP KW	3.63	TOTAL EFFICIENCY (%)	68.9
FAN SPEED (rpm)	2800	STATIC EFFICIENCY (%)	59.7
CRITICAL SPEED (rpm)	5980		
M.O.C./TRC-15/1079/15/2002 GRA			
FAN CASING THK. (mm)	2.5		
IMPELLER BACK PLATE THK. (mm)	2.5	CD ² VALUE (kgm ²)	2.2
IMPELLER BLADES THK. (mm)	2.5	STATIC LOAD. (KGS) (WITH MOTOR)	~280
IMPELLER SURROUND THK. (mm)	2.5	DYNAMIC LOAD. (KGS)	~354

CUSTOMER SELECTION AREA

PLEASE TICK MARK (✓) & USE SUITABLE DIMENSION AS PER REQUIRED ORIENTATION

OUTLET ORIENTATION LOOKING FROM DRIVE END

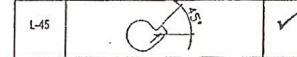


TABLE FOR FOUNDATION

MOUNTING TYPE	F2 STEEL STRUCTURE
PLEASE TICK MARK (✓) REQUIRED FOUNDATION TYPE	✓

SCOPE OF SUPPLY

SR.NO.	DESCRIPTION	QTY. NOS.	MAKE/TYPE	SCOPE
01	FAN WITH INSPECTION DOOR AND DRAIN PLUG	1	ECIB-1-20-53	THERMAX
02	MOTOR 5.5 KW, 2 POLE, 50 132 S	1	ABB/COG	THERMAX
03	FLEXIBLE CONNECTION INLET & OUTLET	1 PAIR	CANAL/REINFORCED	THERMAX
04	INLET BUTTERFLY DAMPER	1	C.S.	THERMAX
05	INLET AND OUTLET MOUNTING FLANGES	1 PAIR	C.S.	THERMAX
06	WAXING/BOILING MEDIUM L.C. WITH HUB & WASHER FOR F-2 ONLY	6	C.S.	THERMAX
07	VIBRATION ISOLATOR WITH NUT & WASHER FOR F-2 ONLY	6	PKYOM/PU-4	THERMAX
08	INSULATION	6	GLASS WOOL	THERMAX

SCOPE OF MOTOR	PAINTING
THERMAX	INSIDE & OUTSIDE: SHOT (LASTING TO SA 2 1/2 (NEAR WHITE CONDITION))
CUSTOMER	2 COATS OF EPOXY BASED ZINC RICH PRIMER. DFT 25 MICRONS/COAT
	OUTSIDE: 2 COATS OF EPOXY GLOSSY ENAMEL. DFT 50 MICRONS/COAT
	ONE COAT OF ACRYLIC POLYURETHANE. DFT 35 MICRONS/COAT
	FINISH SHADE: SHAKE GREY
	TOTAL DFT 185 MICRONS ON OUTSIDE

- NOTES:
- 1) FAN APPLICATION - ID FAN AFTER DAPLIFIER
 - 2) FAN TYPE: DOWNWARD CURVED BLADES
 - 3) THE TOLERANCE ON PERFORMANCE IS AS PER IS:4894-1987
 - 4) VIBRATION RANGE SHALL BE AS PER ISO:14694 GRADE DVS (RMS VELOCITY: 2.5 mm/sec)
 - 5) IMPELLER SHALL BE STATIC ALY & DYNAMICALLY BALANCED AS PER ISO:1910 GR. 6.3
 - 6) SOUND LEVEL -90 DBA AT 1.5 MTR. DISTANCE
 - 7) ALL FASTENERS SHOULD BE GALVANIZED/ZINC PLATED. AS PER IS:1367 GR.4.6
 - 8) ALL GASKET & PACKING OF NON ASBESTOS MATERIAL
 - 9) INLET AND OUTLET FLANGES ARE NOT DESIGNED TO TAKE ANY EXTERNAL LOAD.
 - 10) CIVIL WORK SHOWN IS PICTORIAL ONLY. THERMAX IS NOT RESPONSIBLE FOR CIVIL DESIGN.
 - 11) LUBRICATION DETAIL: GREASE- SERVOGEM EP2/EP3/LITHOLUX
GREASING INTERVAL 800 Hrs.
REPLACEMENT INTERVAL OF GREASE 6000 Hrs.

CC NO: 140233

CLIENT	URANIUM CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)
PROJECT	URANIUM ORE PROCESSING PLANT AT TUMMALAPALLE, A.P. PKG.NO. UCTL-2
CONSULTANT	DEVELOPMENT CONSULTANTS PVT. LTD.
EPC /TURNKEY CONTRACTOR	HINDUSTAN BOHR-OLIVER LTD. ENGINEERING DIVISION HYDRABAD - CHENNAI - AHMEDABAD - BANGALORE
MODEL NO.	

THERMAX SPECIFICATION NO.- EFAM990018

THERMAX LIMITED DIVISION	G.A. AND FOUNDATION DETAIL FAN MODEL-ECIB-1-20-53
DATE: 15/11/2004	SCALE: 1:1
DESIGNED: S. S.	CHECKED: S. S.
APPROVED: S. S.	DATE: 15/11/2004
PROJECT NO.: EC-300206	REV. NO. 01