

DETAIL C
SCALE 2:1

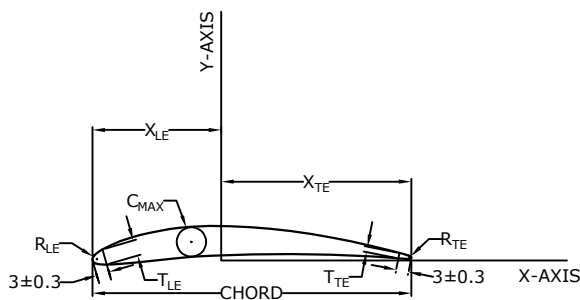
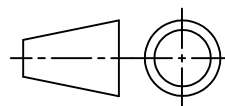


TABLE OF AEROFOIL DATA										
SECTION	I-I		II-II		III-III		IV-IV		V-V	
X	Y _{cc}	Y _{cv}	Y _{cc}	Y _{cv}	Y _{cc}	Y _{cv}	Y _{cc}	Y _{cv}	Y _{cc}	Y _{cv}
-15	-0.362	0.8305	-1.651	-0.465	-2.902	-1.888	-	-	-	-
-14.5	-0.447	1.1858	-	-	-	-	-4.23	-2.819	-5.366	-4.572
-14	-	-	-	-	-	-	-	-	-5.473	-3.805
-13.5	-0.477	1.7269	-1.661	0.6016	-2.867	-0.577	-4.108	-1.837	-5.386	-3.228
-12	-0.393	2.3512	-1.451	1.3702	-2.535	0.3608	-3.663	-0.696	-4.853	-1.827
-10.5	-0.252	2.8426	-1.178	1.9967	-2.129	1.1385	-3.121	0.2539	-4.173	-0.675
-9	-0.091	3.2367	-0.884	2.5204	-1.697	1.8033	-2.546	1.0753	-3.446	0.324
-7.5	0.0707	3.5505	-0.588	2.9597	-1.262	2.3772	-1.964	1.7954	-2.709	1.2062
-6	0.2248	3.793	-0.3	3.3249	-0.835	2.872	-1.391	2.4291	-1.978	1.9908
-4.5	0.3632	3.9704	-0.028	3.623	-0.425	3.2963	-0.835	2.9867	-1.266	2.6915
-3	0.4814	4.0876	0.223	3.8597	-0.037	3.6562	-0.304	3.4755	-0.581	3.3165
-1.5	0.5759	4.1467	0.4493	4.0369	0.3246	3.9544	0.2	3.899	0.0734	3.8717
0	0.6435	4.1501	0.648	4.1593	0.6576	4.1978	0.6726	4.2672	0.6937	4.3702
1.5	0.6885	4.1064	0.824	4.237	0.9672	4.3985	1.1207	4.5943	1.2875	4.8286
3	0.7219	4.0281	0.9887	4.283	1.2657	4.5693	1.5576	4.8918	1.87	5.2563
4.5	0.7492	3.9226	1.147	4.3019	1.5572	4.7123	1.9867	5.1601	2.4434	5.6528
6	0.7665	3.7889	1.295	4.2929	1.838	4.8273	2.4043	5.3999	3.0041	6.02
7.5	0.7733	3.6279	1.4325	4.2573	2.1078	4.9159	2.8102	5.613	3.5521	6.3594
9	0.7692	3.4407	1.5588	4.1962	2.3659	4.979	3.2035	5.8001	4.0861	6.6718
10.5	0.7532	3.2276	1.6731	4.1099	2.6116	5.0171	3.5836	5.9619	4.6058	6.9581
12	0.7249	2.9889	1.775	3.9987	2.8444	5.0305	3.9501	6.0987	5.1108	7.2187
13.5	0.684	2.7247	1.8641	3.8629	3.0641	5.0197	4.3028	6.2113	5.6008	7.4544
15	0.6303	2.4353	1.9405	3.7028	3.2708	4.985	4.6418	6.2997	6.0761	7.6653
16.5	0.5638	2.1205	2.004	3.5183	3.4642	4.9263	4.9669	6.3641	6.5366	7.8518
18	0.4845	1.78	2.0548	3.3093	3.6447	4.8438	5.2786	6.4049	6.983	8.0142
19.5	0.3927	1.414	2.0931	3.0759	3.8125	4.7373	5.5771	6.4215	7.4153	8.1519
21	0.2885	1.0213	2.1192	2.8173	3.9679	4.6064	5.8631	6.4142	7.8347	8.2653
22.5	0.1727	0.6019	2.1336	2.5334	4.1115	4.451	6.1363	6.3825	8.241	8.3545
24	-	-	2.1365	2.224	4.2435	4.271	-	-	-	-
CHORD	37.5225		37.5225		37.5225		37.5225		37.5225	
C_{MAX}	3.6		3.6		3.6		3.6		3.6	
R_{LE}	0.75		0.75		0.75		0.75		0.75	
T_{LE}	2.606		2.606		2.606		2.606		2.606	
R_{TE}	0.25		0.25		0.25		0.25		0.25	
T_{TE}	1.028		1.028		1.028		1.028		1.028	
X_{LE}	15.2		15.137		14.975		14.798		14.43	
X_{TE}	22.354		22.234		21.94		21.484		20.865	



SHEET NO.	1	PART NO. 255.1623.5515	
TOTAL SHEETS	1	PART NAME 5TH STAGE COMPRESSOR ROTOR BLADE	
MATERIAL		ALLOY STEEL	DATE: 10.08.2025
CHECKED BY JYOTI R. M.		APPROVED BY S. N. S. ROY	NEXT ASSEMBLY- 255.1625.5500