



TABLE OF AEROFOIL DATA										
SECTION	I-I		II-II		III-III		IV-IV		V-V	
	X	Y _{cc}	Y _{c_v}	Y _{cc}						
-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
		1	PART NAME 5TH STAGE COMPRESSOR ROTOR BLADE
SCALE 1:1	MATERIAL ALLOY STEEL	DATE: 10.08.2025	
DRAWN BY BIWAJIT S.	CHECKED BY JYOTI R. M.	APPROVED BY S. N. S. ROY	NEXT ASSEMBLY- 255.1625.5500