Schedule V – Performance Data
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Month	Power Consumption (kWh)	Total LM (MT)
May-18	128315	208.231
Jun-18	228219	364.676
Jul-18	183569	295.261
Aug-18	153830	241.539
Sep-18	241884	387.383
Oct-18	250131	404.728
Nov-18	208081	326.197
Dec-18	200483	316.136
Jan-19	231374	370.680
Feb-19	192178	324.536
Total	**2018064**	**3239.367**
SEC (kWh/MT)		**623**

For Forwal Auto Components Ltd.

Managing Director.

Schedule III – Monitoring Programme
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Date: 01.12.2018		Production Start Time: 08.00 AM					Production Stop Time: 08. AM			
Grade Material	Total Charge (kg)	Melting Time		Total Melting Time (Min)	Tapping Temp (°C)	Pouring Temp (°C)		Total LM (kg)	Total Power Consumption (kWh)	SEC (kWh/kg)
		Start	End			First	Last			
300	1202	8.10	9.10	60	1430	1380	1365	1,190	743	0.624
260	995	9.20	10.25	65	1510	1430	1405	980	640	0.653
260	920	10.40	11.39	59	1505	1425	1402	900	560	0.622
500	1070	12.00	12.55	55	1510	1380	1355	1,037	650	0.627
1030	850	1.50	3.20	90	1680	1590	1575	850	550	0.647
1030	850	3.30	4.15	45	1670	1595	1580	850	575	0.676
1030	1000	4.20	5.10	50	1675	1584	1580	980	585	0.597
300	1150	6.45	7.40	55	1420	1370	1355	1130	647	0.573
260	1000	8.20	11.20	180	1500	1430	1410	976	610	0.625
260	1000	11.30	12.55	85	1485	1425	1405	976	620	0.635
300	1000	1.20	1.50	30	1420	1380	1365	976	668	0.684
300	1090	2.10	3.10	60	1410	1379	1360	1,050	649	0.618
1030	1010	3.10	4.10	60	1689	1590	1577	980	713	0.728
300	1070	4.40	5.30	50	1410	1378	1365	1063	616	0.579
500	1090	5.35	7.30	115	1540	1378	1360	1,050	620	0.590
	15297							**14,988**	**9,446**	**0.630**

For Porwal Auto Components Ltd.

Managing Director.

Schedule III – Monitoring Programme
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Date: 26.12.2018			Production Start Time: 08.00 AM				Production Stop Time: 08. AM			
Grade Material	Total Charge (kg)	Melting Time		Total Melting Time (Min)	Tapping Temp (°C)	Pouring Temp (°C)		Total LM (kg)	Total Power Consumption (kWh)	SEC (kWh/kg)
		Start	End			First	Last			
400	1034	8.2	9.2	60	1512	1375	1368	1,000	683	0.683
400	1043	9.35	10.35	60	1520	1380	1365	769	493	0.641
500	791	1.3	2.3	60	1510	1375	1368	920	594	0.646
500	959	2.45	3.5	65	1500	1379	1366	920	585	0.636
300	939	4.25	5.25	60	1415	1375	1359	1,007	623	0.619
300	1113	5.3	6.55	85	1420	1379	1355	1,113	660	0.593
300	1132	7	7.45	45	1422	1370	1355	1,110	697	0.628
300	1030	8.2	9.15	55	1407	1380	1371	1010	619	0.613
300	980	9.25	10.2	55	1410	1374	1362	960	542	0.565
300	1027	10.28	11.25	57	1405	1374	1355	1,010	586	0.580
300	1020	11.35	12.3	45	1395	1380	1365	1010	577	0.571
300	1010	12;40	1.25	45	1397	1375	1360	1,000	696	0.696
250	900	1.25	2.27	62	1535	1435	1405	850	556	0.654
250	950	3.15	3.45	30	1545	1430	1415	935	551	0.589
250	890	4.35	5.3	65	1502	1425	1405	930	562	0.604
1030	1032	5.45	6.55	70	1695	1592	1580	980	615	0.628
1030	987	7.5	7;50	50	1687	1590	1582	980	610	0.622
	16837							**16,504**	**10,249**	**0.621**

For Porwal Auto Components

Managing Director

Schedule III – Monitoring Programme
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Date: 10.01.2019	Production Start Time: 08.00 AM	Production Stop Time: 08. AM

Grade Material	Total Charge (kg)	Melting Time		Total Melting Time (Min)	Tapping Temp (°C)	Pouring Temp (°C)		Total LM (kg)	Total Power Consumption (kWh)	SEC (kWh/kg)
		Start	End			First	Last			
400	967	8.2	9.5	90	1510	1370	1355	903	630	0.698
400	1035	9.55	11.1	75	1530	1375	1365	1,015	620	0.611
500	1087	11.2	12.4	80	1505	1380	1372	1,062	670	0.631
500	1087	12.45	2	65	1510	1379	1364	1,062	632	0.595
500	1077	2	3.2	80	1515	1374	1361	1,062	660	0.621
500	1027	3.2	4.3	70	1510	1369	1355	1,095	640	0.584
450	1047	4.4	5.4	60	1505	1380	1371	1,025	612	0.597
500	947	5.48	6.55	67	1530	1382	1369	941	586	0.623
300	1110	6.58	7.5	52	1460	1380	1359	1,000	580	0.580
300	880	8.15	9.15	60	1428	1385	1365	955	550	0.576
300	977	9.3	10.35	65	1430	1370	1355	816	553	0.678
300	1010	10.55	11.45	50	1410	1375	1359	952	570	0.599
300	995	12	12.55	55	1412	1370	1355	952	561	0.589
300	926	1.05	2	55	1465	1375	1361	816	577	0.707
260	1018	2.1	3.1	60	1510	1430	1402	1000	563	0.563
260	996	3.3	4.3	60	1475	1425	1398	976	644	0.660
260	1032	4.5	5.5	60	1462	1422	1401	1010	606	0.600
260	860	6.1	6.5	40	1465	1432	1405	1036	660	0.637
260	1020	6.55	7.5	65	1460	1420	1395	1000	577	0.577
	19098							**18,678**	**11,491**	**0.615**

For Porwal Auto Components Ltd.

Managing Director

Schedule III – Monitoring Programme
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Date: 31.01.2019	Production Start Time: 08.00 AM	Production Stop Time: 08. AM

Grade Material	Total Charge (kg)	Melting Time		Total Melting Time (Min)	Tapping Temp (°C)	Pouring Temp (°C)		Total LM (kg)	Total Power Consumption (kWh)	SEC (kWh/kg)
		Start	End			First	Last			
400	1045	8.15	9.1	55	1535	1375	1365	1,023	664	0.649
400	1032	9.15	10.2	65	1522	1380	1361	993	711	0.716
400	812	11.2	12.15	55	1515	1374	1355	890	584	0.656
500	918	1	2.1	70	1500	1380	1362	1,085	664	0.612
500	1021	2.2	2.3	70	1512	1385	1372	481	320	0.665
300	853	2.4	3.4	60	1430	1375	1360	1,150	661	0.575
260	962	4.05	5.3	85	1512	1425	1401	940	690	0.734
260	1620	6	7.5	110	1420	1380	1360	1600	932	0.583
250	1100	8.4	9.55	75	1485	1425	1403	1,086	660	0.608
250	1450	10.25	11.55	90	1490	1430	1405	1,431	927	0.648
500	1080	1	2	60	1510	1380	1359	1066	674	0.632
500	982	2.05	3.1	65	1490	1370	1355	948	578	0.610
500	1007	3.15	4.15	60	1485	1369	1354	1,003	580	0.578
500	1037	4.2	5.25	65	1495	1379	1361	1,030	603	0.585
500	1002	5.35	6.35	60	1490	1370	1357	1005	590	0.587
500	1102	6.45	7.45	60	1485	1375	1362	1,080	670	0.620
	17023							**16,811**	**10,508**	**0.625**

For Porwal Auto Components Ltd.

Managing Director,

Schedule III – Monitoring Programme
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Date: 04.02.2019	Production Start Time: 08.00 AM	Production Stop Time: 08. AM

Grade Material	Total Charge (kg)	Melting Time		Total Melting Time (Min)	Tapping Temp (°C)	Pouring Temp (°C)		Total LM (kg)	Total Power Consumption (kWh)	SEC (kWh/kg)
		Start	End			First	Last			
300	1280	8.15	10	108	1420	1374	1360	1,250	980	0.784
300	960	10.3	11.3	60	1420	1375	1356	950	596	0.627
300	1180	11.45	12.4	55	1418	1380	1365	1,150	643	0.559
300	1130	12.55	2.05	70	1400	1374	1355	1,113	644	0.579
300	1090	2.15	3.15/5.05	60	1415	1370	1354	1,050	718	0.684
300	1060	5.05	6.15	70	1410	1375	1359	1,050	611	0.582
300	1115	6.25	7.25	60	1418	1382	1364	1,100	678	0.616
500	1064	8.1	9.1	60	1512	1374	1358	1032	680	0.659
260	1006	9.25	10.3	65	1480	1427	1402	1,085	700	0.645
500	1047	10.4	12	80	1522	1385	1371	1,015	650	0.640
260	978	12.1	1	50	1520	1430	1405	960	585	0.609
260	972	1.2	2.3	70	1487	1425	1395	950	540	0.568
500	1032	2.4	3.5	70	1512	1374	1365	1,000	628	0.628
500	932	4.15	5.2	65	1510	1378	1368	900	685	0.761
1030	1035	5.35	6.45	70	1665	1596	1575	985	490	0.497
1030	996	7	8	60	1667	1590	1577	980	615	0.628
	16877							**16,570**	**10,443**	**0.630**

For Porwal Auto Components Ltd.

Managing Director.

Schedule III – Monitoring Programme
After implementation

IGBT Base 750 KW 1 Ton Crucible Melting Furnace of Oritech Make

Date: 21.02.2019	Production Start Time: 08.00 AM	Production Stop Time: 08. AM

Grade Material	Total Charge (kg)	Melting Time		Total Melting Time (Min)	Tapping Temp (°C)	Pouring Temp (°C)		Total LM (kg)	Total Power Consumption (kWh)	SEC (kWh/kg)
		Start	End			First	Last			
260	1240	08:50	10:10	80	1470	1420	1402	1,053	636	0.604
300	1070	10:15	11:40	85	1430	1385	1365	1,053	633	0.601
300	1005	11:45	12:50	65	1430	1380	1368	985	542	0.550
300	1130	01:10	2.20	70	1410	1385	1369	1,053	582	0.553
300	1130	02:25	03:30	65	1420	1379	1365	1,050	582	0.554
300	1170	03:35	05:00	85	1409	1382	1362	1,050	628	0.598
300	950	05:05	06:20	75	1400	1375	1360	900	505	0.561
300	1175	06:25	07:00	35	1400	1374	1355	850	451	0.531
300	1180	07:05	8	55	1412	1383	1372	1,050	610	0.581
260	1112	8.25	9.1	45	1520	1425	1397	1,090	690	0.633
300	1050	10.05	11.5	60	1420	1382	1370	1030	626	0.608
300	1060	11.05	12.5	60	1420	1380	1362	930	560	0.602
500	1067	12.05	12.55	50	1530	1385	1365	1,050	650	0.619
400	977	1.3	2.2	50	1530	1380	1364	996	667	0.670
400	997	2.45	3.35	50	1530	1375	1362	970	650	0.670
500	1012	3.5	4.5	60	1530	1379	1359	990	680	0.687
300	1015	4.55	5.5	55	1695	1385	1365	1085	750	0.691
300	1019	6.1	6.45	35	1690	1380	1360	982	600	0.611
300	1020	6.55	7.5	55	1415	1379	1361	1,000	625	0.625
	20379							**19,167**	**11,667**	**0.609**

For Porwal Auto Components Ltd.

Managing Director,