



Certificate No. : TC-5389

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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**TEST REPORT**

ULR-TC538921100010878F

SHEET 1 OF 8

NAME & ADDRESS OF CUSTOMER SIA ENGINEERING PROJECTS INDIA PVT. LTD. PLOT NO.-1207, CHOSAR GAM, JETALPUR- CHOSAR ROAD, AHMEDABAD, GUJARAT. 382435.	REPORT No.: RP-2122-002258 DATE OF ISSUE: 26.04.2021	
	CUSTOMER REF.NO Letter	DATED 03.11.2020
	DATE OF SAMPLE RECEIPT 03.11.2020	DATE OF TESTING 16.04.2021 to 21.04.2021
	SAMPLE IDENTIFICATION ERDA SAMPLE CODE No. : ERDA-00388484 TYPE DESIGNATION : PMCC- 4000A SERIAL No.: SEPIPL/IEC61439/R0/28082019 Drawing No.: SEPIPL/IEC61439/R0/28082019 PAGE: - 1 OF 7 REV: R4, SEPIPL/IEC61439/R0/28082019 PAGE: - 2 OF 7 REV: R4, SEPIPL/IEC61439/R0/28082019 PAGE: - 3 OF 7 REV: R4, SEPIPL/IEC61439/R0/28082019 PAGE: - 4 OF 7 REV: R4, SEPIPL/IEC61439/R0/28082019 PAGE: - 5 OF 7 REV: R4, SEPIPL/IEC61439/R0/28082019 PAGE: - 6 OF 7 REV: R4, SEPIPL/IEC61439/R0/28082019 PAGE: - 7 OF 7 REV: R4.	
SAMPLE DESCRIPTION *PMCC PANEL Rated voltage (U_n) : 415 V Rated current (I_{nA}) : 4000 A Rated frequency (f_n) : 50 Hz No. of Phases : TPN+E Extendable/Non-Extendable : Extendable Rating of short-time withstand current and peak withstand current of vertical busbar and rated conditional short-circuit current of protective conductor with incoming ACB and other details as per sheet 3 OF 8. Quantity (Tested) : 01 No.		
TEST DETAILS - Short circuit withstand Strength test of vertical busbar (Cl. No. 10.11.5.3.3, 10.11.5.3.5) - Short circuit withstand strength of the protective circuit with incoming ACB (Cl. No. 10.5.3.5 & 10.11.5.6) ENCLOSURES: NUMBER OF OSCILLOGRAM : Six NUMBER OF PHOTOGRAPH : One NUMBER OF TEST CIRCUIT DIAGRAM : Three NUMBER OF DRAWINGS : Seven *NOTE: 1) Sample consist of main horizontal busbar, Neutral busbar, Earth busbar, Vertical busbar, 1 No. Incoming 4000A ACB, 1 No. outgoing 1250A ACB and 2 Nos. outgoing MCCBs (630A, 400A) and 8 nos, of vacant compartments. 2) Short-time withstand current and peak withstand current test was carried out on vertical busbar only as on request of customer. 3) Single phase conditional short-circuit current test carried out on protective circuit with incoming ACB on request of customer.		
TEST SPECIFICATIONS As per customer's requirement, test procedure followed as per IEC 61439-1:2011 & IEC 61439-2:2011		
REMARKS: The sample (Vertical busbars and protective circuit) conforms to the requirements of short circuit withstand strength as specified by customer.		
PREPARED BY (Signature)	CHECKED BY (Signature)	APPROVED BY (YASHINKHAN I. PATHAN)

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TC 3133553



TC 2988000



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**TEST REPORT**

ULR-TC538920000013751F

SHEET 1 OF 21

NAME & ADDRESS OF THE CUSTOMER SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD - 382 435 (GUJARAT)	TEST REPORT NO.: RP-2021-005512 DATE: 11/07/2020									
SAMPLE DESCRIPTION PMCC PANEL Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No. Further details as per SHEET 2 TO 5 OF 21.	<table border="1"> <tr> <td data-bbox="821 459 1204 504">CUSTOMER REF. NO</td> <td data-bbox="1204 459 1532 504">DATED</td> </tr> <tr> <td data-bbox="821 504 1204 560">Letter</td> <td data-bbox="1204 504 1532 560">20/06/2020</td> </tr> <tr> <td data-bbox="821 560 1204 627">DATE OF SAMPLE RECEIPT</td> <td data-bbox="1204 560 1532 627">DATE OF TESTING</td> </tr> <tr> <td data-bbox="821 627 1204 705">20/06/2020</td> <td data-bbox="1204 627 1532 705">22/06/2020 to 11/07/2020</td> </tr> </table> SAMPLE IDENTIFICATION ERDA Sample Code No.: ERDA-00369286 Type designation: PMCC-4000A Serial No.: SEPIPL/IEC61439/R0/28082019 Manufacturer's name: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED		CUSTOMER REF. NO	DATED	Letter	20/06/2020	DATE OF SAMPLE RECEIPT	DATE OF TESTING	20/06/2020	22/06/2020 to 11/07/2020
CUSTOMER REF. NO	DATED									
Letter	20/06/2020									
DATE OF SAMPLE RECEIPT	DATE OF TESTING									
20/06/2020	22/06/2020 to 11/07/2020									
TEST DETAILS 1.0 Verification of temperature rise (Cl. No. 10.10) ENCLOSURE: i) Photograph No. : 2021-000994/A & B (Total 2 Nos.) ii) Oscillogram No. : Nil iii) Drawing No. : 1) SEPIPL/IEC614339/R1/28082019 (PAGE: 1 OF 3) (REV: R1), 2) SEPIPL/IEC614339/R1/28082019 (PAGE: 2 OF 3) (REV: R1), 3) SEPIPL/IEC614339/R1/28082019 (PAGE: 3 OF 3) (REV: R1), 4) SEPIPL/IEC614339/R1/28082019 (PAGE: 1 OF 1) (REV: R1) (Total 4 Sheets) TEST WITNESSED BY: Mr. Kiran Kumar (Engineer) of M/s. Sia Engineering Projects India Private Limited. NOTE: Temperature-rise limit for aluminium busbar joints and incoming ACB terminals were specified by the customer. REMARKS: Sample conforms to the requirement of the standard for the test carried out.	TEST SPECIFICATIONS IEC 61439-1: 2011 & IEC 61439-2: 2011									
PREPARED BY 	CHECKED BY 	APPROVED BY  (G. SOM)								

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TEST REPORT

ULR-TC538920000023005F

SHEET 1 OF 8

NAME & ADDRESS OF THE CUSTOMER SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD – 382 435 (GUJARAT). MANUFACTURED BY: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	TEST REPORT NO.: RP-2021-017585 DATE OF ISSUE: 28/10/2020	
SAMPLE DESCRIPTION PMCC PANEL Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No. Further details as per SHEET 2 TO 5 OF 8.	CUSTOMER REF. NO Letter	DATED 20/06/2020 DATE OF SAMPLE RECEIPT 20/06/2020 DATE OF TESTING 15/10/2020 to 28/10/2020
TEST DETAILS 1.0 Verification of thermal stability of enclosure (Cl. No. 10.2.3.1) ENCLOSURE: i) Photograph No. : 2021-004865/A to C (Total 3 Nos.) ii) Oscillogram No.: Nil iii) Drawing No. : As per SHEET 2 OF 8. REMARKS: Sample conforms to the requirement of the standard for the test carried out.	SAMPLE IDENTIFICATION ERDA Sample Code No.: ERDA-00369286 Type designation: PMCC-4000A Serial No.: SEPIPL/IEC61439/R0/28082019 TEST SPECIFICATIONS IEC 61439-1:2011 & IEC 61439-2:2011	
PREPARED BY	CHECKED BY	APPROVED BY

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**TEST REPORT**

ULR-TC538921000003551F

SHEET 01 OF 05

NAME AND ADDRESS OF CUSTOMER SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED Plot No. 1207, Chosar Gam, Jetalpur-Chosar Road, Ahmedabad, Gujarat-382435. Manufactured by: M/s. SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	TEST REPORT NO.: RP-2021-029561 DATE OF ISSUE: 09/02/2021	
SAMPLE DESCRIPTION PDB ENCLOSURE Rating: Rated Voltage: 415V Rated normal current: 630 Amp. Rated frequency: 50Hz Rated insulation voltage: 660V Containing: Busbars - 4 Nos. 1P MCB - 8 Nos.	CUSTOMER REF. NO. Letter DATE OF SAMPLE RECEIPT 28/01/2021	DATED 27/01/2021 DATE OF TESTING 28/01/2021 to 08/02/2021
TEST DETAILS 1.0 IP 65 tests Enclosures: i) Photograph No.: 2021-010795/00401463/A to C (Total 3 nos.) ii) Drg. No. : As per SHEET 02 OF 05. Test witnessed by: Mr. Jatin B. Solanki (Technician) from M/s. SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED Note: Petroleum Jelly used on gasket. Remarks: Sample conforms to the requirement of IP 65 tests as per the standard.	SAMPLE IDENTIFICATION ERDA Sample Code No.: ERDA-00401463 Sr. No.: SEPIPL/IEC60529 Type Designation: PDB ENCLOSURE TEST SPECIFICATION IEC 60529:2013	
PREPARED BY	CHECKED BY	APPROVED BY

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TEST REPORT

ULR-TC538920000004769F

SHEET 1 OF 7

NAME & ADDRESS OF THE CUSTOMER		TEST REPORT NO. : RP-1920-042029 DATE : 13/02/2020	
SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD – 382 435 (GUJARAT)		CUSTOMER REF. NO	DATED
		Letter	04/02/2020
		DATE OF SAMPLE RECEIPT	DATE OF TESTING
		04/02/2020	05/02/2020
SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	
PMCC PANEL Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No. Further details as per Sheet 2 to 5 of 7		ERDA Sample Code No. : ERDA-00357101 Type designation : PMCC-4000A Serial No.: SEPIPL/IEC61439/R0/28082019 Manufacturer's name: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	
TEST DETAILS		TEST SPECIFICATIONS	
1.0 Marking		As per customer's requirement & Test procedure followed as per IEC 61439-1:2011 & IEC 61439-2:2011	
ENCLOSURE: i) Photograph No. : 1920-015631/A & B (Total 2 Nos.) ii) Oscillogram No. : Nil iii) Drawing No. : SEPIPL/IEC614339/R0/28082019 PAGE: 1 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 2 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 3 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 4 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 5 OF 5 REV: R0 SEPIPL/SLD/IEC614339/R0/28082019 PAGE: 1 OF 1 REV: R0 (Total 6 sheets)			
TEST WITNESSED BY: Mr. Vipul Patel (Production Head) of M/s. Sia Engineering Projects India Private Limited.			
NOTE: Only the test asked for by the customer has been carried out.			
TEST RESULT: As per attached sheet.			
 PREPARED BY		 CHECKED BY	
		 (G. SOM) APPROVED BY	

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TEST REPORT

ULR-TC538920000004772F

SHEET 1 OF 7

NAME & ADDRESS OF THE CUSTOMER SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD - 382 435 (GUJARAT)	TEST REPORT NO. : RP-1920-042032 DATE : 13/02/2020	
SAMPLE DESCRIPTION PMCC PANEL Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No. Further details as per Sheet 2 to 5 of 7	CUSTOMER REF. NO	DATED
	Letter	04/02/2020
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	04/02/2020	07/02/2020 to 08/02/2020
TEST DETAILS 1.0 Mechanical operation (Cl. No. 10.13) ENCLOSURE: i) Photograph No. : 1920-015631/G & H (Total 2 Nos.) ii) Oscillogram No. : Nil iii) Drawing No. : SEPIPL/IEC614339/R0/28082019 PAGE: 1 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 2 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 3 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 4 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 5 OF 5 REV: R0 SEPIPL/SLD/IEC614339/R0/28082019 PAGE: 1 OF 1 REV: R0 (Total 6 sheets)	SAMPLE IDENTIFICATION ERDA Sample Code No. : ERDA-00357101 Type designation : PMCC-4000A Serial No.: SEPIPL/IEC61439/R0/28082019 Manufacturer's name: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	
	TEST SPECIFICATIONS IEC 61439-1:2011 & IEC 61439-2:2011 TEST WITNESSED BY: Mr. Vipul Patel (Production Head) of M/s. Sia Engineering Projects India Private Limited. REMARKS: Sample conforms to the requirement of the standard for the test carried out.	
PREPARED BY	CHECKED BY	APPROVED BY

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**TEST REPORT**

ULR-TC538920000004885F

SHEET 1 OF 11

NAME & ADDRESS OF THE CUSTOMER	TEST REPORT NO. : RP-1920-042167	
SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	DATE : 14/02/2020	
SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD - 382 435 (GUJARAT)	CUSTOMER REF. NO	DATED
	Letter	04/02/2020
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	04/02/2020	05/02/2020 to 06/02/2020
SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	
INSULATING MATERIAL PARTS OF PMCC PANEL	ERDA Sample Code No. : ERDA-00357101	
Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No.	Type designation : PMCC-4000A	
Further details as per Sheet 2 to 5 OF 11	Serial No.: SEPIPL/IEC61439/R0/28082019	
	Manufacturer's name: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	
TEST DETAILS	TEST SPECIFICATIONS	
1.0 Verification of resistance of insulating Materials to abnormal heat and Fire due to internal electric effects	As per customer's requirement & test procedure followed as per IEC 61439-1:2011 & IEC 61439-2:2011	
ENCLOSURE: i) Photograph No. : 1920-015631/I to K (Total 3 Nos.) ii) Oscillogram No. : Nil iii) Drawing No. : SEPIPL/IEC614339/R0/28082019	PAGE: 1 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 2 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 3 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 4 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 5 OF 5 REV: R0 SEPIPL/SLD/IEC614339/R0/28082019 PAGE: 1 OF 1 REV: R0 (Total 6 sheets)	
TEST WITNESSED BY: Mr. Vipul Patel (Production Head) of M/s. Sia Engineering Projects India Private Limited.		
NOTE: Only the test asked for by the customer has been carried out.		
REMARKS: Sample conforms to the requirement of the customer for the test carried out.		
PREPARED BY	CHECKED BY	(G. SOM) APPROVED BY

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**TEST REPORT**

ULR-TC538920000006072F

SHEET 1 OF 5

NAME & ADDRESS OF THE CUSTOMER SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD - 382 435 (GUJARAT)	TEST REPORT NO. : RP-1920-043695 DATE : 22/02/2020	
SAMPLE DESCRIPTION REPRESENTATIVE SAMPLE OF PMCC PANEL (WITH LOOSE SAMPLES) Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No.	CUSTOMER REF. NO	DATED
	Letter	04/02/2020
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	04/02/2020	06/02/2020 to 14/02/2020
TEST DETAILS	TEST SPECIFICATIONS	
1.0 Resistance to corrosion (Severity test A) (Cl. No. 10.2.2.2) ENCLOSURE: i) Photograph No. : 1920-015631/L to N (Total 3 Nos.) ii) Oscillogram No. : Nil iii) Drawing No. : SEPIPL/IEC614339/R0/28082019 PAGE: 1 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 2 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 3 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 4 OF 5 REV: R0 SEPIPL/IEC614339/R0/28082019 PAGE: 5 OF 5 REV: R0 SEPIPL/SLD/IEC614339/R0/28082019 PAGE: 1 OF 1 REV: R0 (Total 6 sheets)	SAMPLE IDENTIFICATION ERDA Sample Code No. : ERDA-00357101 (Main Panel) ERDA-00357102 (Representative sample) Type designation : PMCC-4000A Serial No.: SEPIPL/IEC61439/R0/28082019 Manufacturer's name: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	
	REMARKS: Sample conforms to the requirement of the standard for the test carried out.	
PREPARED BY	CHECKED BY	(G. SOM) APPROVED BY

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**TEST REPORT**

ULR-TC538920000007054F

SHEET 1 OF 25

NAME & ADDRESS OF THE CUSTOMER		TEST REPORT NO. : RP-1920-044977	
SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED SURVEY NO.: 1207, CHOSAR-JETALPUR ROAD, VILLAGE: CHOSAR, TAL.: DASCROI, DIST.: AHMEDABAD - 382 435 (GUJARAT)		DATE : 29/02/2020	
		CUSTOMER REF. NO	DATED
		Letter	04/02/2020
		DATE OF SAMPLE RECEIPT	DATE OF TESTING
		04/02/2020	10/02/2020 to 28/02/2020
SAMPLE DESCRIPTION		SAMPLE IDENTIFICATION	
PMCC PANEL Rated voltage : 415 V Rated current (Incoming) : 4000 A Rated frequency : 50 Hz No. of Phases : Three Phase, Neutral & Earth Quantity (tested) : 1 No.		ERDA Sample Code No. : ERDA-00357101 Type designation : PMCC-4000A Serial No.: SEPIPL/IEC61439/R0/28082019 Manufacturer's name: SIA ENGINEERING PROJECTS INDIA PRIVATE LIMITED	
Further details as per sheet 2 to 5 of 25			
TEST DETAILS		TEST SPECIFICATIONS	
1.0 Dielectric properties (Cl. No.10.9)		IEC 61439-1: 2011 & IEC 61439-2: 2011	
ENCLOSURE: i) Photograph No. : 1920-015631/O & P (Total 2 Nos.) ii) Oscillogram No.: ERDA-00357101/01 & 10, ERDA-00357101/11 & 20, ERDA-00357101/21 & 30, ERDA-00357101/31 & 40, ERDA-00357101/41 & 50, ERDA-00357101/51 & 60, ERDA-00357101/61 & 70, ERDA-00357101/71 & 80, ERDA-00357101/81 & 90, ERDA-00357101/91 & 100, ERDA-00357101/101 & 110, ERDA-00357101/111 & 120, ERDA-00357101/121 & 130, ERDA-00357101/131 & 140 (Total 28 Nos.) iii) Drawing No. : SEPIPL/IEC61439/R0/28082019 PAGE: 1 OF 5 REV: R0 SEPIPL/IEC61439/R0/28082019 PAGE: 2 OF 5 REV: R0 SEPIPL/IEC61439/R0/28082019 PAGE: 3 OF 5 REV: R0 SEPIPL/IEC61439/R0/28082019 PAGE: 4 OF 5 REV: R0 SEPIPL/IEC61439/R0/28082019 PAGE: 5 OF 5 REV: R0 SEPIPL/SLD/IEC61439/R0/28082019 PAGE: 1 OF 1 REV: R0 (Total 6 sheets)			
REMARKS: Sample conforms to the requirement of the standard for the test carried out.			
 PREPARED BY		 CHECKED BY	
		 (G. SOM) APPROVED BY	

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TC 2949660