

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042 Ph.: +91-9871727340, 9911196977 Email: amittestcc2@gmail.com Website: www.atncc.in

TEST REPORT

LIBRATION CENTRE AMITTEST AND CALIBRATION CE (ELECTRICAL	& ELECTRONICS LABORATORY) Format no. 7.8F-01
ADDRESS OF THE LABORATORY :	Kh. No. 45/14, 17 & 45/6 , Village Prahaladpur, Bangar
LIBRATION CENTRE AMITTEST AND CALIBRATION CENTRE AMITTEST AND CA LIBRATION CENTRE AMITTEST AND CALIBRATION CENTRE AMITTEST AND CA	Near Kali Mata Mandir Delhi -110042
TELEGRAM: TEST AND CALIBRATION CENTRE AND TEST AND CA	LIBRATI <u>ON CE</u> NTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CA LIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CA
TELEPHONE(S):	LIBRATI <u>ON CEN</u> TRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CA LIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CA
FAX: CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT TE	LIBRATICAL CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL LIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL
E-mail: TRE AMIT TEST AND CAUBRATION CENTRE AMIT TEST AMIT TES	amittestcc2@gmail.com
TEST REPORT AS PER:	IBRATION PER EESL specification THE AMIT TEST AND CALBRATION CENTRE AMIT TEST AM
REPORT No. : ATCC2/2019061514	DATED: 02/07/2019 TON CENTRE AND TEST AND CALBRATION CENTRE AND TEST AND TES
Issue to: MAHALAXMI MINDA TECHNOLO 59B, SHIPRA SUN CITY, GYAN I GHAZIABAD UP - 201010	OGIES KHANDI II, NEAR SHIPRA RIVERA, GATE NO. – 1, INDRAPURAM,
BRATION CENTRE ABILITIEST AND CALIBRATION CENTRE ABILITIEST ABI	JBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL JBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL JBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT TEST AMIT TEST AMIT TEST AMIT TES
PART A. PARTICULARS OF SAMPLE SUBI	WITTED THE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT TE
a) Nature of Sample :	LED Based Solar Street Light System
b) Grade/Variety/Type/Class/Size etc:	i) Solar PV Module 80Wp (Make: Enkay Solar Power And Infrastructure Pvt. Ltd.) ii) Battery LFP 12.8 V-30 Ah (Make: Fusion Power Systems) iii) LED Luminaries 12W (Make: NKMINDA Mahalaxmi Minda technologies)
c) Declared Values, if any :	IRATION CENTRE ANT TEST AND CALIBRATION CENTRE AND TEST AND CALIBRATION CENTRE AMIT TEST AND CAL
d) Code No. :	BRATEN CENTRE AMIT TEST AND CAUBRATION CENTRE AMIT TEST AMIT TES
e) Batch No. & Date of Manufacture :	IS NATION CENTRE AND TEST AND CALIBRATION CENTRE AMIT TEST AMIT TE
f) Quantity :	Solar PV Module: 01 Nos, Battery: 01 Nos, LED Luminaire: 01 Nos
g) Date of Receipt :	15/06/2019
h) Job order No.:	2019061514
i) Seal :	IBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL IBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL
j) IO's Signature :	IBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT
k) Any other Information/Expiry date, if any	IBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CAL OF ATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRIE AMIT TEST AND CAL
I) Date of Commencement of Testing :	15/06/2019 AND CALIBRATION CENTRE AND TEST A
m) Date of Completion of Testing :	02/07/2019
n) Embossing/Printing:	BRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT TES
o) Party Ref. No. :	BRATION CENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT TES
SNATION CENTRE AMIT YEST AND CALIBRATION CENTRE AMIT TEST AND CALI	

PART B: SUPPLEMENTARY INFORMATIONS

a) Reference to sampling procedure, wherever applicable :

b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and/or photographs, as appropriate to test report, if any[To be attached]:

c) Deviation from the test methods as prescribed in relevant ISS/ work instructions,

Attached NIL

N.A.

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REPORT No.: ATCC2/2019061514

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DATED: 02/07/2019

PART C: Test Result

S. No.	Description	Specification Specification	Observation	Result
ALI PATION	Solar PV Module	IT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRA	MOIT CENTRE AMIT TEST AND CALIBRATION CENT TION CENTRE AMIT TEST AND CALIBRATION CENT	RE AMIT TEST AND GAL
ALIBRATION ALIBRATION ALIBRATION	Indigenously manufactured PV module should be used	Made In India	Made in India	REAMIT TEST AND CAL REAMIT TEST AND CAL REAMIT TEST AND CAL REAMIT TEST AND CAL
ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION	CERTIFICATE AND CALIBRATION CENTRE AN ENTRE AMIT TEST AND CALIBRATION CENTRE AN	The PV module should have crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II / BIS 14286 from an NABL or IECQ accredited Laboratory.	Complies with IEC Certificate no. NC28295- 4787863180A	AMIT TEST AND CAL RE AMIT TEST
ALIENTION ALIBRATION ALIBRATION ALIBRATION ALIBRATION	power output of the module	The power output of the module under STC should be a minimum of 75Wp.	80.328 W	Satisfactory
IV TON	module efficiency	The module efficiency should not be less than 14%.	15.586%	
LIBRATION ALIBRATION A	terminal box	The terminal box on the module should have a provision for opening it for replacing the cable, if required.	Provided BRATION CENT BRATION C	
Vinon	There should be a Name Plate fixed inside the module which will give.		RE AMIT TEST AND CALIF	
	Name of the manufacturer	Enkay Solar Power And	Enkay Solar Power And	AMIT TEST AND CAL RE AMIT TEST AND CAL
	or Distinctive Logo.	Infrastructure Pvt. Ltd.	Infrastructure Pvt. Ltd.	
	Model Number.	ESP75/12V	ESP75/12V	
LIBRATION O	Serial Number.	MSE 075P0720190002	MSE 075P0720190002	
	Year of manufacture.	2019	2019	RE AMIT TEST AND CAL
LIPRATION OF LIBRATION OF LIBRA	A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the tedlar sheet of the module.	module Serial No.: MSE 075P0720190002	MSE 075P0720190002	C AMIT TEST AND CALIB RE AMIT TEST AND CALIB
2 TON C	BATTERY	IT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRAT IT TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRAT	TON CENTRE AMIT TEST AND CALIBRATION CENTRED TO CALIBRATICA CA	RE AMIT TEST AND CALL ELAME TEST AND CALL
JE ATION C	Battery Make	Fusion Power Systems	Fusion Power Systems	AMIT TEST AND CALL
JE LATION O JERATION O JERATION O JERATION O	Minimum 12.8V, 30AH capacity Lithium Ferro Phosphate Battery.	12.8V, 30Ah LiFePo4 Battery	12.8V, 30Ah LiFePo4 Battery	Satisfactory
III STION OF THE PROPERTY OF T	Battery management System' (BMS)	Battery pack should have proper 'Battery management System' (BMS) for cell balancing, over charge and over temperature protection.	Provided EST AND CALBRATION CENTR CENTRE AND TEST AND CALBRATION CENTR N CENTRE AND TEST AND CALBRATION CENTR	
iv.	Certification	Battery should conform to the latest BIS/international standards.	Complies with Test report no. URS/TEE/RID/19-20/375	

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CALIE 3 ATIO	LIGHT SOURCE	AIT TEST AND CALIBRATION CENTRE AMIT TEST AMIT	TION CENTRE AMIT TEST AND CALIBRATION CO	ENTRE AMIT TEST AND CAL
CALIBRATIO CALIBRATIO CALIBRATIO	The light source will be a white LED type.	Should be Provide	Provide TEST AND CALIBRATION CO	ENTR AMIT TEST AND CALLED THE AMIT TEST AND CALLED AMIT TEST AMIT TE
CAL ILIATIO	System Wattage	12W D CALIBRATION CENTRE AMIT TEST AND CALIBRAT	12.02W	
CALIF. ATIO	Efficiency at system Level	≥ 125 lumens/watt	149.5 lumens/watt	
iv.	Lumen at system Level after all losses	≥ 1500 lumens	1808 lumens	
V.	Luminaire Mounting Height	4.5 Meters above the ground level	4.5 Meters	AMIT TEST AND CAL NTRI AMIT TEST AND CAL
vi.	LM80	Compliant	Complies	AMIT TEST AND CALIF
vii.	Impact Resistance (IK08)	Compliant	Complies	NTRE AMIT TEST AND CAL
viii.	Color rendering Index (CRI)	≥ 70 Ra BRATION SENTRE AMIT TEST AND CALIBRAT	70.7 Ra IT TEST AND CALIBRATION CE	NTRE AMIT TEST AND CAL NTRE AMIT TEST AND CAL
CALIBRATION CALIBRATION	Luminous intensity distribution	it should follow the batwing patterns in polar curves.	Complies	AMIT TEST AND CAL NTRE AMIT TEST AND CAL NTRE AMIT TEST AND CAL NTRE AMIT TEST AND CAL
CALIBRATION CALIBRATION CALIBRATION CALIBRATION CALIBRATION CALIBRATION CALIBRATION	Certificate AD CALIBRATION CENTRE AM CALIBRATION CENTRE AM ENTRE AMIT TEST AND CALIBRATION CENTRE AMIT ENTRE AMIT TEST AND CALIBRATION CENTRE AMIT TEST	The Luminous should be tested for all type tests as per IS 10322 Part 5 Sect 3 or IEC 60598-2-3 standards	Complies I STAND CALBRATION CE IN CENTRE AMIT TEST AND CALBRATION CE	AMIT TEST AND CALL NITRE AMIT TEST AND CALL
CALBRATON	Ingress protection	Optical and control gear compartment – IP 65/ IP 66	Complies CALBRATON CE	NTIVE AMIT TEST AND CALI NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI
xii.	Radiated Emission Test	As per CISPR - 15	Complies	NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI
xiii.	ESD (Electro Static Discharge and Radiated susceptibility test)	As per IEC 61547	Complies	Satisfactory
xiv.	Duty Cycle	Auto Dimming by 50% after	Also has non diming &	MINI AMITIEST AND CALE
	LENTRE AMIT TEST AND CALIBRATION CENTRE AMI	4 hours of use	customized diming	NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI
	N - ENTRE AMIT TEST AND CALIBRATION CENTRE AMI	TENTAND CAUBRATION CENTRE AMIT TEST AND CAUBRATION	switching options	NTRE AMIT TEST AND CALIF NTRE AMIT TEST AND CALIF
xv.	Minimum Average level of illuminance on road surface	24 LUX LIBRATION CENTRE AMIT TEST AND CALIBRATI TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATI TEST AND CALIBRATION CENTRE AMIT TEST AND CALIBRATI	32.5 Lux	NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI NTRE AMIT TEST AND CALI
XVI.	colour temperature	The colour temperature of white LED used in the system should be in the range of 5500°K-6500°K.	5830°K CENTRE AME TEST AND CAL BRATION CEI CENTRE AME TEST AND CAL BRATION CEI N CENTRE AME TEST AND CAL BRATION CEI	THE AMIT TEST AND CALIFIED AMIT TEST AMIT
xvii.	ultraviolet light	W-LEDs should not emit ultraviolet light.	Complies	TRE AMIT TEST AND CALL TITRE AMIT TEST AND CALL TITRE AMIT TEST AND CALL TITRE AMIT TEST AND CALL
xviii.	The light output from the white LED light source should be constant throughout the duty cycle.	Should be provide	Complies N CENTRE AMIT TEST AND CALIBRATION CENTRE	KIRE AMIT TEST AND CALIE ITRE AMIT TEST AND CALIE
xix.	The lamps should be housed in an assembly suitable for outdoor use	Provide Bration Centre and Test and Calibratics	Provided AND ALBRATON CENTRE AND THE PROPERTY OF THE PROPERTY	THE AMIT TEST AND CALLE TITRE AMIT TEST AND CALLE
AXX. FON ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION	temperature during the dusk to dawn operation	The temperature of heat sink should not increase more than 20°C above ambient temperature during the dusk to dawn operation.	16°C MITTEST AND CALBRATION CENTRE AMITTEST AMITT	AMELIEST AND CALIE ITRE AMIT TEST AND CALIE

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4.14	ELECTRONICS			
ALIBRATIC ALIBRATIC ALIBRATIC	electronic efficiency	The total electronic efficiency should be at least 90%.	93.5% AND THE TAND CALERATION ON CHITE AND THE TAND CALERATION	CENTRA AMIT TEST AND CALIFORNIA CONTRA AMIT TEST AND CALIFORNIA CALIFOR
ALIBRATIC ALIBRATIC ALIBRATIC	Charge controller should be MPPT Type.	MPPT Type in any test and callera in Callera	Complies	
ALIBRATIO ALIBRATIO ALIBRATIO ALIBRATIO ALIBRATIO	Electronic should operate at an appropriate voltage suitable for proper charging of the battery.	Should be provide	Provided	
ALIBRATIO ALIBRATIO ALIBRATIO	No load current consumption should be less than 20mA.	< 20mA	4.6mA	
ALIBRATIO ALIBRATIO ALIBRATIO ALIBRATIO ALIBRATIO ALIBRATIO ALIBRATIO	The PV module itself should be used to sense the ambient light level for switching ON and OFF the lamp.	Should be provide	Provided TEST AND CALIBRATION OF CONTROL AND TEST AND TEST AND CALIBRATION OF CONTROL AND TEST AND TEST AND CALIBRATION OF CONTROL AND TEST AND CALIBRATIC AND TEST AND CALIBRATION OF CONTROL AND TEST A	
ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION ALIBRATION	The PCB containing the electronics should be capable of solder free installation and replacement.	Should be provide	Provided ESTAND CALIBRATION OF CENTRE AMIT TESTAND CALIBRATICAL CALIBRAT	
VII. TO LIBRATION LIBRATION LIBRATION	Necessary length of wire/cables, switches suitable for DC use and fuses should be provided.	Should be provide	Provided	Satisfactory
5	ELECTRONIC PROTECTIONS	MACANERATION CHATES AND TEST AND CAPERAT	TON CENTRE AMITTEST AND CALERATION C	ENTRE AMELIEST AND CALIE
LIE ATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION	Adequate protection is to be incorporated under "No Load" condition e.g. when the lamp is removed and the system is switched 'ON'.	Should be provide	Provided	CENTRE AMIT TEST AND CALIB CENTRE AMIT TEST AND
LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION	The system should have protection against battery overcharge and deep discharge conditions.	Should be provide	Provided TEST AND CALEBRATION CONTROL OF THE PROVIDED TO THE TEST AND CALEBRATION CONTROL OF THE TEST AND CALEBRATIC OF THE TEST AND CALEBRATION CONTROL OF THE TEST AND CALEBRATIC OF THE TEST	
LIBRATION LIBRATION LIBRATION LIBRATION	The system should have protection against short circuit conditions.	Should be provide	Provided	
iv.	Protection for reverse flow of current through the PV module(s) should be provided.	Should be provide	Provided	
V.TON BRATION BRATION BRATION BRATION	Adequate protection should be provided against battery reverse polarity.	Should be provide	Provided ALBRATON CALBRATON CALBRATO	
vi.	Load reconnect should be provided at 80% of the battery	Should be provide	Complies	

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6.	MECHANICAL COMPONENTS		ATION CENTRE AMIT TEST AND CALIBRATION C	
LIBRATIO LIBRATIO LIBRATIO LIBRATIO LIBRATIO LIBRATIO LIBRATIO	A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.	Should be provide	Complies EST AND CALBRATION OF AN OCCUPANT O	CENTY AMIT TEST AND CALL CENTY AMIT TEST AND C
LIBRATIO LIBRATIO LIBRATIO LIBRATIO LIBRATIO LIBRATIO	The frame structure should have provision so that the module can be oriented at the suitable tilt angle.	Should be provide	Complies ESTAND CALIBRATION OF THE STAND OF	
ATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION LIBRATION	The pole should Hot dip Galvanised pipe as per IS 1161 & IS 4736 i.e. class B with 76.1 mm Dia & 3.6+ 10% mm thickness of the pole.	Should be provide	Complies EST AND CALIBRATION CONTROL OF THE CONTROL OF THE CALIBRATION CONT	
IV. TO BRATON BRATON BRATON BRATON	The height 5m above the ground level and 1m below the ground. Luminaire shall be at least 4.5m above the ground level.	Should be provide	Complies ESTAND CALIBRATION COMPLIES TESTAND CALIBRATION COMPLIES TO CALIBRATI	ENTRE AMIT TEST AND CALIBRE ENTRE AMIT TEST AND CALIBREATER AMIT TEST AMIT TES
LEVATION LIBRATION LIBRATION	The pole should have the provision to hold the luminaire.	Should be provide	Complies	ENTRE AMIT TEST AND CALL ENTRE AMIT TEST AND CALL ENTRE AMIT TEST AND CALL
VIATION JERATION	The battery shall be either included in the luminaire enclosure, which should be water proof (IP 65) and corrosion resistant or outside the luminaire enclosure in a vented, acid proof and corrosion resistant, hot dip galvanized metallic box (IP 65) with antitheft locking arrangement for outdoor use.	Should be provide A ATION SERVICE AND CALIBRA AND CENTRE ANTITEST AND CALIBRA AND CENTRE ANTITEST AND CALIBRA AND CENTRE ANTITEST AND CALIBRA CONTRE ANTITEST AND CALIBRA CALIBRATION CENTRE ANTITEST AND CALIBRA	Complies A TO THE AND ALBRATION OF COMPLETE AND THEST AND ALBRATION OF COMPLETE AND ALBRATION OF COMPLETE AND ALBRATION OF COMPLETE AND ALBRATION OF COMPLETE AND THEST AND CALIBRATION OF COMPLETE AND THE AND THE AND ALBRATION OF COMPLETE AND THE AND THE AND ALBRATION OF COMPLETE AND ALBRATION OF COMPLETE AND THE AND THE AND ALBRATION OF COMPLETE AND CALBRATION OF COMPLETE AND CA	Satisfactory Satisfactory Management of the same called a same called
B 7 ATION	INDICATORS	Should be provide	Complies	NTRE AMIT TEST AND CALIF NTRE AMIT TEST AND CALIF
BLATION BRATION BRATION	The system should have two indicators, green and red.		IN CENTRE AMIT TEST AND CALIBRATION CE IN CENTRE AMIT TEST AND CALIBRATION CE IN CENTRE AMIT TEST AND CALIBRATION CE	NTRE AMIT TEST AND CALIE NTRE AMIT TEST AND CALIE NTRE AMIT TEST AND CALIE
BRATION BRATION BRATION BRATION BRATION BRATION BRATION BRATION BRATION BRATION BRATION BRATION	The green indicator should indicate the charging under progresses and should glow only when the charging is taking place. It should stop glowing when the battery is fully charged.	Should be provide	Complies ES AND CALERATION CE IN CENTRE AMIT TEST AND CALERATION CE	Satisfactory
HATION BRATION BRATION	Red indicator should indicate the battery " Load Cut off' condition.	Should be provide	Complies	NTRE AMIT TEST AND CALIBR NTRE AMIT TEST AND CALIBR NTRE AMIT TEST AND CALIBR

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AMIT TEST AND CALIBRATION CENTRE

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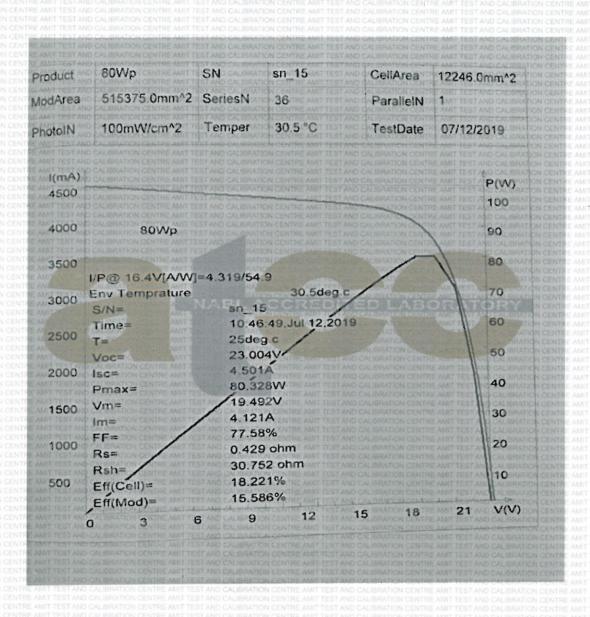
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TEST REPORT

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Annex-1

I-V Curve



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