

K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

7.1.2The Institution has facilities for alternate sources of Energy and Energy Conservation Measures

7.1.2 (A) Solar Energy

The University consists of solar power generating system of 310 KW on the roof top of the academic building A, B & C as well as on the hostel building. An additional benefit comes in the form of rebate in property tax under 'Green Building' norms and uninterrupted energy is available for use during daytime all around the year. Apart from this, solar power generating system is provided in the hostels for power generation and hot water requirement.

			IQAC -Data for So	olar Panels		
Sr.N o	Buildin g	No. of Panels	Total no. of solar panels	Capacity	Total capacity	Rebate rate
1	A	157				
2	В	375				
3	C	204	984	310	41850	0.25
4	DG	120		Kw/day	units/month	0.23
5	Hostel	128				

		K.R. Mangalam University (SO)	K.R. Mangalam University (SOLAR PANEL DATA FROM YEAR 2018-2020)	(2018-2020)
Sr.No	Month	Solar Energy consumption in KWH (Year 2020)	Solar Energy consumption in	Solar Energy consumption in
-	January	10	10200 20200	KWH (Year 2018)
7	February	34484	08606	NIL
3	March	32059	1,887	NIL
4	April	32772	41233	NIL
5	May	30546	41425	20013
9	June	21128	43838	37669
7	July	10136	36/66	34233
0	America	19130	25186	28081
0	August	18119	32736	20010
6	Septembe	NIL	31637	28810
10	October		70330	70810
11	Novembe	NIL	33330	30062
12	Decembe	NIL	19066	28237
		215229	391344	75003/
E				765507
Lotal	for 29 month	Total for 29 month = 215229+391344+263552 =870125 KWH	KWH	

Note: Sanctioned load for Institution is 2000 Ampere

Yearly power Requirement: 1740262 KWH

Source: KRMU State Electricity Bills

Registrar
Mangalam University
C. road, Gurugram, (Haryand)

K.R. Mangalam University (SOLAR PANEL DATA FROM YEAR 2021-23)

Sr. No	h	Solar Energy consumption in KWH (Year 2021)	Solar Energy consumption in KWH (Year 2022)	Solar Energy consumption in KWH (Year 2023)
1	Janua ry	7383	23992	18169
2	Febru ary	20657	35860	29464
3	Marc h	25815	40903	33764
4	April	33501	39729	36798
5	May	25630	34145	36308
6	June	23627	33135	31117
7	July	18385	21836	22951
8	Augu st	29952	23911	31238
9	Septe mber	27302	26479	27498
10	Octob er	40038	28519	29577
11	Nove mber	26160	27659	19158
12	Dece mber	25997	22668	22382
		215229	358836	338424

Total for 36 months = 912489KWH

Note: Sanctioned load for Institution is 2000 Ampere

Yearly power Requirement: 1824978KWH

Source: KRMU State Electricity Bills

Registrar

K.R. Mangalam University

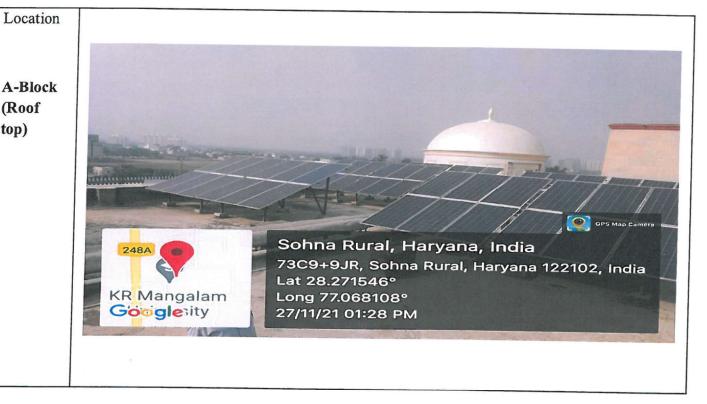
Sohna Road, Guruyiam, (mar, a.s.)

K R Mangalam University, Gurugram Alternative resources of Energy Facilities

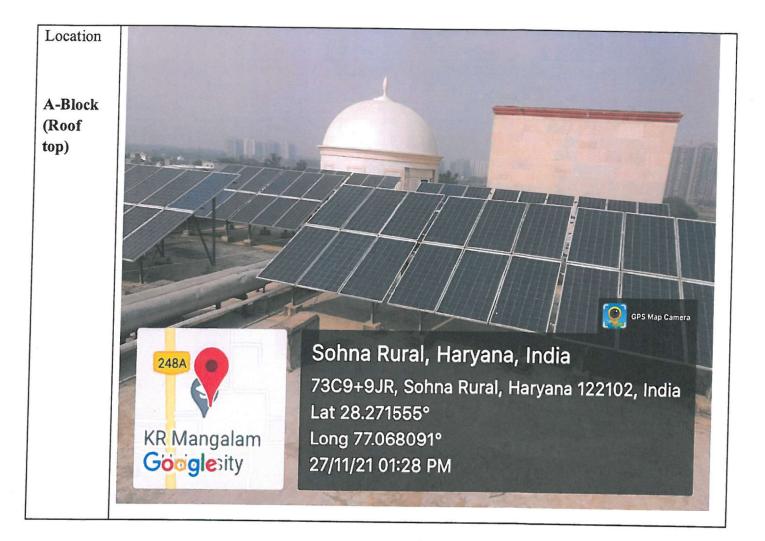
Solar Power Plant and Solar Water Heater

A-Block (Roof

top)



K.R. Mengalam University Sohna Road, Gueugeam, (Haryana)



B-Block (Roof top)



B-Block (Roof top)

Sohna Rural, Haryana, India
73C9+9JR, Sohna Rural, Haryana 122102, India
Lat 28.271828°
Long 77.068375°
27/11/21 01:36 PM

Location

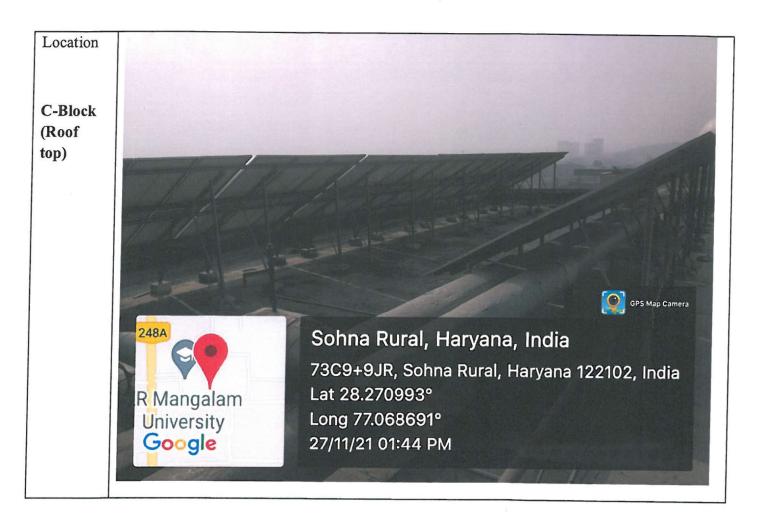
B-Block (Roof top)



Location

C-Block (Roof top)









Cirls
Hostel

(Roof
top)

Sohna Rural, Haryana, India
73F9+9G3, Sohna Rural, Haryana 122102, India
Lat 28.273404°
Long 77.06897°
27/11/21 02:08 PM

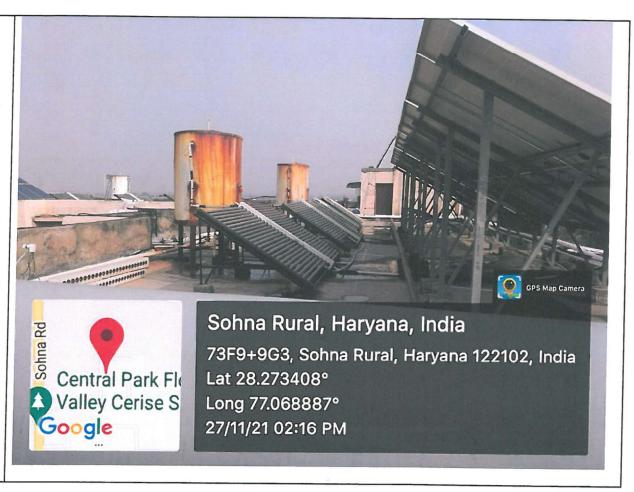
Registrar

Solar Water Heater: Girls and Boys Hostel (Roof top) GPS Map Camera KR Sohna Rural, Haryana, India GALAN UI VERSITY 73F9+CHQ, Sohna Rural, Haryana 122102, India Lat 28.27359° Long 77.06883° Google 27/11/21 02:14 PM

Solar Water Heater:

Girls and Boys Hostel

(Roof top)



From

Additional Deputy Commissioner-cum-Chief Project Officer, New & Renewable Energy Department, HAREDA Gurgaon

To

Name Yash Dev Gupta Director Mangalam Edu Gate Running KR Mangalam University
Address KR MANGALAM UNIVERSITY RUN BY MANGALAM EDU GATE GURUGRAM- SOHNA
PIN ROAD
122103

Sanction No DNRE/GGM/2017/5448-57 Dated 03-08-2017 Date: 03-Aug-2017

Subject:

Sanction of the project for installation of grid connected rooftop SPV power plant.

- i. The user has to complete the installation the project in all respect by 30-Dec-2017 (date of completion of the project) i.e. within five months time (150 days) from date of sanction. However, if fails to install the plant within five months, this sanction will be treated as cancelled. No request for extension of time period shall be entertained.
- ii. The date of installation of the power plant, pending the installation of the net meter, will be treated as the date of installation for the purpose of calculation of subsidy. Net meter may be installed after this period as early as possible.
- iii. The grid connected rooftop SPV power plant is to be installed from the channel partner/ New Entrepreneurs empanelled by MNRE (List may be downloaded from website www.mnre.gov.in or www.hareda.gov.in) or from the firms approved by HAREDA. The system shall be installed by strictly meeting out the minimum technical specifications prescribed by HAREDA from time to time. The MNRE approved components shall be used in the plant. Minimum Technical Specifications are placed at Annexure II. The plant not installed from the MNRE empanelled Channel Partner/ New Entrepreneurs shall not be eligible for the subsidy.
- iv. Financial Assistance for the installation of Grid Connected Rooftop Solar Power Plants at rate of 30% of the cost/ benchmark cost or Rs. 20000/- per kWp, whichever is less shall be provided for the project.
- v. The applicant has to make the payment to the supplier on the mutual agreed terms and conditions between user and the supplier. HAREDA will not be responsible for any dispute between user & supplier. However, the subsidy part shall be released to the user only after the commissioning of the project in all respect.

- Proper metering arrangement shall be incorporated so that the generation data from the SPV power plants may be available.
- vii. The system should be without battery bank and power generated would be synchronized with the electricity distribution network in the building with proper system design so that surplus power can be fed into the grid. However systems with small battery bank can be installed.
- viii. The benchmark cost of the system (of the SPV Grid Connected Power Plant without battery bank) finalized for Govt./PSU sector shall be taken for calculation of subsidy for individual/private users. The subsidy on the basis of this benchmark cost shall be released to users after the installation and commissioning of the system as per terms and conditions of the sanction of MNRE. Benchmark cost may change without any notice to the public.

ix. The Solar Power Plants which have been installed prior to the site visit of Project Officer of concerned district are not eligible for availing subsidy. Respective district Project Officer shall certify that the system has not been installed at the site prior to his visit of the site.

- After the commissioning of the system the user has to fill up the Project Completion Report online and to upload all the relevant documents listed below for claiming the subsidy(all the documents must be signed by the user):
 - a. Invoice of the System
 - b. List of Sr. Nos. of Modules
 - c. Warranty/Guarantee & declaration certificate from the supplier as per
 - d. Commissioning Report (Provisional) as per format (without signature of
 - e. Joint Commissioning Report (Final) as per format (without signature of
 - f. Photograph of the installed system
 - g. MNRE approved channel partners certificate.
 - h. Cancelled Cheque.
- The Applicant must see the guidelines from the web site of HAREDA before xi. installation of the system.
- The applicant has to apply for net meter facility immediately, if not applied xii.
- For any other information/clarification the user shall contact to Project officer in xiii. the office of the Addl. Deputy Commissioner of their district.

(This is system generated letter needs no signature)

Additional Deputy Commissioner-cum-Chief Project Officer. New & Renewable Energy Department, HAERDA Gurgaon

FOR GRID CONNECTED SOLAR PROTOTO DE LAC POWER PLANT

The first of the state of the s

Surfame of the benedicans

DIA. 188

New & Renewable Energy Depth

System checked &

faund installed

as terr MNRE/HAREDA

Norm
Kuldup Sint

Aro, DNRE

Haryana Bijli Vitran Nigam Store Challan Book

116

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Date. 30/3/18

Serial No.

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		ALCHO- 2NHT-0090.				
				SECTION, S	/Divit	
				DHBVN, : o	hna	
	· · · .				TO	
				K.R Sohra F	Regist a I. Mangalam U Road, Gurugra	niversity
Bastal	ing Officers	Store Inne	ord			, (



NON ENERGY RECEIPT (PAYMENT MADE THROUGH CASH COLLECTION COUNTER)

	REFERENCE DATE 04/08/2017 13:30:37	nal		Sub Division		Sub-Divn. Sohna	Annlication No Dayship America	A JUNOUIL BARNE ANDUM KS
	SUB DIVISION REFERENCE NO G41564325			Depositor Name	M/C'MANICAL PREDICT AND THE COLOR OF THE COL	WAS WANGALAM EDUGALE, ADDRESS: GURGAON SOHNA ROAD	ode · Remarks	
REFERENCE NO 25750062	ייבו בייבונסב ועס 2073	Particulars of Non Energy Receipt	Account No		G41INHT0090		S No Group Head Code Remarks	

Particulars of Payment

1000.00

NA

ON ANC OF PROCESSING FEES FOR NET METERING EQUIPMENTS

62

Total

1000.00

Bank Branch Amount		1000.00	1000.00
Instrument Date			
Instrument No			lures)
Mode		Cash	Total Amount Paid (In Figures)
S No	•	_	Total Amou

Total Amount Paid (In Words): ONE THOUSAND ONLY

Amount Paid TO DIBVN Through Counter (PREM PAL Having ID 6386)

This is computer genereated receipt and requires no signature

Save Energy Help Nation

Registrar

K.R. Mangalam University Sohna Road, Gurugram, (Haryana)

52

NTY



NON ENERGY RECEIPT

(PAYMENT MADE THROUGH CASH COLLECTION COUNTER)

REFERENCE NO 33326510 SUB DIVISION REFERENCE NO G41628849 REFERENCE DATE 13/04/2018 12:37:52

Particulars of Non Energy Receipt Duplicate

Account No **Depositor Name** G41INHT0090 **Sub Division** M/S MANGALAM EDUGATE, ADDRESS: GURGAON SOHNA ROAD Sub-Divn. Sohna

SNo **Group Head Code** Remarks **Application No** Payable Amount Rs 62 ON A/C OF HT NET METER SUB STATION END 23000.00 NA Total 23000.00

Particulars of Payment

SNo	100		modelo of t dyfficing			-
1	Mode	Instrument No	Instrument Date .	Bank	Branch	Amount
Total Amo		n Figures)				23000.00
-	unt Falu (II	n Figures)		÷		23000.00

Total Amount Paid (In Words): TWENTY THREE THOUSAND ONLY

Amount Paid TO DHBVN Through Sounter (PREM PAL Having ID 6886)

nis is computer genereated receipt and requires no signature Save Energy Help Nation



Oragyaware INFORMATICS

Visit us at www.pragyaware.com

Registrar



221 ZOKKO ENERGY PVT. Complete Solar Solutions for Better Environment

Warranty/Guarantee and Declaration Certificate

It is Certified that the Solar Power Plant having capacity 310 kWp installed by us at K.R. MANGLAM UNIVERSITY Gurugram, Sohna Road Gurugram Haryana-122103 is Warranted / Guaranteed for five years from the date of commissioning with five year AMC of complete system and with the warranty of modules for their output peak watt capacity, which would not be less than 90% at the end of 10 years and 80% at the end of 25 years.

It is also certified that the SPV Power Plant installed is in compliance with the latest minimum technical specifications of MNRE/HAREDA.

The details of major components and their test reports are as under:

S.No	Item	Make	Capacity of Item tested	Test	Tes Report
				Laboratory	No. & Date
1	Modules	Saatvik green	315 Wp	TUV	Enclosed
		energy pvt ltd		Rheinland	
2	Inverter/PCU	Delta	50 kWp	BUREAU	Enclosed
				VERITAS /	
- 1				INTERTEK	



MNRE Channel Partner Certificate No: MNRE/CP/GCRT/C/2967

Valid up to: 14-05-2018

PAN of the Supplier:-AAFCN0155P

GSTIN of the Supplier:-07AAFCN0155P1Z7

Dated:- 18.12.2017

For ZOKKO Energy Pvt. Ltd.



ZOKKO ENERGY PVT. LTD.

Complete Solar Solutions for Better Environment

Annual Maintenance Contract



We, ZOKKO Energy Private Limited Khasra No-53/12/2 & 53/13/2 Near Ashok Leyland Service Station Village- Nangli Poona, Delhi-110036 India, hereby confirm that we have installed and commissioned 310 KW ON GRID Solar Power System to K.R. MANGLAM UNIVERSITY, Gurugram Sohna Road, Gurugram, Haryana-122103 are covered under warranty from us for complete system for any defect for 5 years from the date of Installation of 18/12/2017 and will warranted till 17/12/2022

FOR ZOKKO ENERGY PVT. LTD.

(AUTHORISED SIGNATION TO THE





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ZOKKO ENERGY PVT. L

Complete Solar Solutions for Better Environment

INSTALLATION & COMMISSIONING REPORT

NAME OF CUSTOMER: M/s KR MANGLAM UNIVERSITY

ADDRESS

: Gurugram Sohna Road, Gurugram, Haryana-122103

PROJECT DETAILS

: 310kW ON GRID CONNECTED SOLAR POWER PLANT

We have completed the installation and commissioning or 310 Kw ON GRID SOLAR POWER PLANT For K R MANGLAM UNIVERSITY Gurugram Sohna Road Gurugram, Haryana-122103 INDIA on 18/12/2017 with the following items:

Particula	rs S.No.	
of		WARRANTY
Equipme	nt ,	WARRANTY
GRID TIE	S.No. O3617707615WM	
SOLAR	03617707603147	5 YEARS FROM
INVERTER	O3617707602WM	THE DATE OF
MAKE:	O3617707628WM	INSTALLATION
DELTA	O3617707140WM	(FROM
CAPACITY	O3617707141WM	18/12/2017 TO
310 Kw		17/12/2022)
Modle No		,
RPI - M-50	4	
1		1
SOLAR	CCE245474200000	
PANELS	SGE3151710040935,SGE3151710040934,SGE3151710040607 SGE3151710040737 SGE3151710040534	///
MAKE:		(Warranty for
SAATVIK		10 years
CAPACITY:		against any
315wp each		manufacturing defect)
x 984 nos		delecti
•		(Efficiency
	SGE3151710040528,SGE3151710040529,SGE3151710040377, SGE3151710040608 SGE3151710040742,SGE3151710040744	Warranty 90%
	SGE3151710040608,SGE3151710040742,SGE3151710040744 SGE72FP1708140040,SGE72FP1708140039	up to 10 years,
1	SGE72FP1708140040.SGE72FP1708140039	80% up to 25
- 1	SGE72FP1708140040,SGE72FP1708140041,SGE72FP1708140039 SGE72FP1708140543,SGE72FP1708140544,SGE72FP1708140042 SGE72FP1708140502,SGE71FP1708140544,SGE72FP1708140545	years)
1	SGE72FP1708140502 SGE71FP1708140544,SGE72FP1708140545	,
. 1	SGE72FP1708140502,SGE71FP1708140544,SGE72FP1708140545 SGE72FP1708140497,SGE72FP1708140501,SGE72FP1708140500	
	SGE72FP1708140497,SGE72FP1708140578,SGE72FP1708140500	

For ZOKKO Energy Pvt. Ltd.

Auth. Signator

Regd. Office: Flat No. 342,C-8,Sec-8,Rohini, Delhi-110085
Corporate Office: Khasra no 53/12/2 & 53/13/2, Near Ashok Leyland Service, Station, Village Nangli Poona Delhi-110036
Mob: 9313359147 • Tel: 011-27732787 • Email: contact@zokkoenergy.com
CIN: U74999DL2015PTC284576

Form1 Renewable Energy Department, Haryana & HAREDA

APPLICATION FORM

(Solar Power Plant)



PART- I : Project Details
[A] General Details

Application No: GCRT/GGN/2017/06/0154

- Suns	Application No: GCR1/GGI4/2017/00/0101		
Category of the Applicant	INCOME		
Upload Photo of the beneficiary	INSTITUTIONAL SECTOR		
Name & D.	ATTACHED		
Name & Designation	YASH DEV DIRECTOR		
Father/Husband/Director/Partner	HEM CHAND		
Audress			
District	K R Mangalam Univeristy Sohna Road		
Pin Code	GURGAON		
PAN/TAN No.	122103		
	AAJCS3143G		
Land Line Telephone No.(with STD Code)	1210001430		
Email			
Name of Contact Person	ABHISHEK@KRMANGALAM.COM		
	ABHISHEK GUPTA		
Mobile No	9990666000		
Objective for implementing the Plant	SELF-CONSUMPTION TOTAL OR PARTIAL GENERATION UNDER NET-METERING FACILITY		

[B] Details of the Plant Site / Location

-	
- 4	-

Site Name	
	K R MANGALAM UNIVERSITY
Site Address	K R MANGALAM UNIVERISTY SOHNA ROAD
Pin Code	122103
Land Line Telephone No.(with STD code)	
Email	ABHISHEK@KRMANGALAM.COM
Name of Contact Person	ABHISHEK GUPTA
Mobile No	9990666000
Proposed Capacity of the SPV Power plant (kWp)	325.00
Whether Single/Multiple Meter	Single
vailability of shadow free south acing rooftop/land area for the ower plant with photograph (Area 1 Sq. Mtr.)	4000
pload Rooftop Photograph of site	ATTACHED
1 104 All. D C	ATTACHED

13
GRID CONNECTED WITH NET METERING FACILITY WITHOUT BATTERY BANK
2000
NON-DOMESTIC
ATTACHED
G41-INHT-0090
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[B] Details of Grid Connectivity of the Project

CHIC				
Grid Connectivity Level	CONNECTED AT 11KV LEVEL			
Name of DISCOM	DHBVN			
Metering Arrangement for the Project	BI-DIRECTIONAL METER, SOLAR GENERATION METER			
Upload Registration Certificate(in case other than domestic sector)	ATTACHED			
Upload Proof of being Institute/Social Organization	ATTACHED			
Upload Any Other Document(in case,if address differ from Aadhaar Card)	NOT ATTACHED			

Certificate from DISCOM

(Regarding installation of Bi-Directional Meter)

	-		iai ivioloi)		
It is certified that the Bi Grid Connected	+ Com Uh	Ver PA	system /	(date) will installed	h the
Date of issue of certificat					
Signatures. E/SDO					
of concerned Sub-Division	of DISCOM		,		

of concerned Sub-Division of DISCOM SDO (OP) S/Drvn with seal RVN Sohna