Samarth Consultants

ENVIRONMENT AUDIT REPORT

K. R. MANGALAM UNIVERSITY

Sohna Road, Gurugram, Haryana 122103
Audit Date – 04th March, 2019

Audit Conducted by:

Samarth Consultants

M/S SAMARTH CONSULTANTS

212, BHERA ENCLAVE, PASCHIM VIHAR,
DELHI – 110087

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

For SAMARTH MANAGEMENT PRIVATE LIMITED

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CERTIFICATE OF EXCELLENCE

THIS IS CERTIFY THAT **K. R. MANGALAM UNIVERSITY**

HAS SUCCESSFULLY

COMPLETED THE **ENVIRONMENT**

AUDIT PROGRAM

CONDUCTED ON **04 MARCH 2019**

For SAMARTH MANAGEMENT PRIVATE LIMITED
Samarth Suri
Authorized Signatory

CERTIFICATE NO. **SMPL/2019/C-0014** DATE OF ISSUE **15-03-2019**

AUTHORISED SIGNATORY

CONDUCTED BY

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

Table of Contents

Registrar
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List of Annexures

List of Tables

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LIST OF ABBREVIATIONS

NAAC	National Assessment and Accreditation Council
SC	Samarth Consultants
BMW	Biomedical Waste
CTE	Consent to Establish
CTO	Consent to Operate
KRMU	K. R. Mangalam University.
LOR	List of Requirements
NABET	National Accreditation Board for Education and Training
RWH	Rain water Harvesting
STP	Sewage Treatment Plant
L	Liters
K LD	Kiloliter per Day
Kg	Kilogram
LED	Light-emitting diode
PVC	Photovoltaic cell

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CHAPTER 1: INTRODUCTION

➢ BACKGROUND

Environmental audit is systematic and objective assessments of the environmental status and performance of facilities, processes, and/or operations. It is a valuable management tool which can be used to identify and assess environmental problems, and initiate corrective actions which ensure legal compliance and internal management policies and practices. Environmental audits can also be used to assess the quality of the existing environmental management systems, and to foster additional initiatives to improve the environmental performance. International Chambers of Commerce (ICC) has defined Environmental Auditing as

"*A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects.*"

This Environment Audit aims to assess all the attributes of the environmental paradigm & natural resources which are likely to be impacted from different activities of the University. Samarth Management Private Limited (*hereafter termed as SC*) have been appointed by the K. R. Mangalam University to ensure the University's environmental performances are in-alliance with enviro-legal compliance set up by the Government.

This audit is prepared based on the legal compliances applicable to the University and environment mitigation measures that have been undertaken by the University to reduce the environmental impacts. The detailed approach and methodology of this report is explained in Chapter 2 while this Chapter (1), provides the overview of the University along with the Audit objectives and scope.

➢ OVERVIEW OF UNIVERSITY

K.R. Mangalam University is the fastest-growing higher education institute in Gurugram, India. Since its inception in 2013, the University has been striving to fulfill its prime objective of transforming young lives through ground-breaking pedagogy, global collaborations, and world-class infrastructure.

KR Mangalam University aspires to become an internationally recognized institution of higher learning through excellence in interdisciplinary education, research and innovation, preparing socially responsible life-long learners contributing to nation building.

- Foster employability and entrepreneurship through futuristic curriculum and progressive pedagogy with cutting-edge technology
- Instill notion of lifelong learning through stimulating research, Outcomes-based education and innovative thinking
- Integrate global needs and expectations through collaborative programs with premier

universities, research centers, industries and professional bodies

- Enhance leadership qualities among the youth having understanding of ethical values and environmental realities

➢ CHRONOLOGY OF ENVIRONMENTAL PERMISSION

This section explains the historical background of the university in terms of the clearances that it has obtained from different authorities as per the national norms, related with environment clearance, consent to establish (CTE), and consent to operate (CTO). The series of the clearances obtained

by the University at different times as presented below in **Table 1.1**:

Table 1: Brief History

S. No.	Date	DESCRIPTION
1.	2011	KR Mangalam has taken Environment clearance for Institutional College in Revenue Estate of Village Sohna, Gurgaon. Built up area is 521435.682 Sq. ft.
2.	2013	KR Mangalam has taken NOC from the Forest Department that University Land is non-forest land and not covered/fall under Aravalli notification.
3.	2014	KR Mangalam has taken Highway Authority NOC from The Ministry of Road Transport of Highway, Govt. of India, New Delhi.

➢ AUDIT OBJECTIVES

This audit focuses on the effective management of environment, health and safety within the University premises both during construction and operation phases along with legal compliances associated with the university. The objectives of this auditing are as follows:

- To assess the performance of implementation of environmental safeguards,
- To identify shortfalls and intimate the proponent regarding action required for improved & effective obedience of environmental conditions as stipulated in Environmental Clearance, Consent to Establish Certificate and statutory approvals / permissions.

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➢ ABOUT THE AUDITORS

M/s SAMARTH CONSULTANTS (SC) is an Environmental Consulting Organization working in Environmental field since 2004. The organization is having a team of Environment Experts with wide knowledge in the subject. Samarth Consultants is providing services for various sectors such as

- Preparing Environment Impact Assessment (for Building & Construction Projects, Small and big manufacturing units, Hospitals, Educational Institutions, Hotels etc.)
- Samarth Consultants has prepared Environmental Audit reports for various institutes and organizations.

Team involved in this auditing and report preparation is given below

Name	Designation
Mr. Atul Suri	**Auditor**
Mr. Amit Kumar	**Auditor**

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➢ REPORT STRUCTURE

This audit report has been divided in to the following chapters:

Chapter 1: Introduction

Chapter 2: Approach & Methodology

Chapter 3: Data Collection and Analysis

Chapter 4: Conclusion

➢ DISCLAIMER

"Samarth Consultants' Environment Audit Team has prepared this report based on input data submitted by the representatives of the University and the best judgment capacity of the expert team. It is further informed that the conclusions are arrived at following best estimates based on the provided information, and onsite observations to the extent possible."

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CHAPTER 2: APPROACH AND METHODOLOGY

➢ APPROACH & METHODOLOGY

The audit has been carried out in two stages. In the first stage, it includes the review of documents while involving the site inspection and report preparation. The general approach followed to prepare the audit report.

This report has been prepared based on the documents provided by the K. R. Mangalam University, and site inspection carried out by the SMPL team. Based on detailed scrutiny of documents and field observations on complied/partially complied /not complied/not assessed particulars, this report has been prepared.

Samarth Consultants team reviewed the previous reports, documents, and listed out the required information / documents to prepare this audit report. The checklist was prepared and was shared with the client to collect them during the site inspections. The audit was carried out as per compliance obligation applicable to the University. There are certain rules and notification that the university shall comply with either in the construction or in operation phases as explained below in **Table 2**.

Table 2: Applicable Rules and Notifications to University

S. No.	Act/Rule Notification	Related NOC/Clearance/Annual Returns	Concerned Department
1.	Environment Protection Rule 1986,	Submission of Environmental Statement (Form-5).	State Pollution Control Board
2.	Water prevention and Control of pollution act 1974.	1. Consent to Establish 2. Consent to Operate	State Pollution Control Board
3.	Air prevention and control of pollution act 1981		
4.	Hazardous & Other Wastes (Management and Tran-boundary Movement) Rules, 2016.	1. Hazardous Waste Authorization 2. Hazardous Waste Return (Form 4) 3. Manifest- Form 10.	State Pollution Control Board
		3. Maintain a record of hazardous and other wastes in Form 3.	
5.	E-Waste (Management) Rules, 2016.	1. Form 3 (Annual returns) and 2. Form 6 (Manifest)	State Pollution Control Board
		3. Form-2: Maintain records of E-waste generated	
6.	Biomedical Waste Management Rules2016.	1. BMW Authorization 2. Annual Return (Form 4)	State Pollution Control Board
7.	Municipal Solid Waste Management Rules 2018		Municipal Corporation

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CHAPTER 3: DATA COLLECTION AND ANALYSIS

This audit has been carried out based on norms/rules/ laws applicable to the University and the actions undertaken by the University to combat the impacts on environmental components. The activities undertaken by the University along with the aspects and impacts are given below:

Table 3: Environment Impact/Aspects

S. No	Activities	Aspects	Impacts
1.	Water usage-domestic use, drinking purposes, etc.	Water consumption: almost 95 KLD which is fulfilled by the Municipal.	Depletion of water sources.
2.	Use of diesel generator (DG) sets.	• Air Emission • Waste generation: spent oil • Noise nuisances • Leakages	• Increase the pollutant into the air. • Spent oil is a hazardous waste. • Increase in noise level. • Adverse impacts on the soil.
3.	Canteen Operation- produces the solid wastes.	Production of solid wastes;	• Soil contamination • Groundwater contamination • Health issues
4.	Use of medicine and first aid services-Medical waste	Biomedical waste generation	Health issues from the waste if not disposed of properly.
5.	Use of electronic equipments and E waste (TVs, computer monitors, printers, scanners, keyboards, mouse, cables, circuit boards, lamps, clocks, flashlight, calculators, phones, answering machines)-	E-waste generation	Depletion of the resources
6.	Planting around the premises of University.	Generation of green waste.	• Safety issues • Increase in greenery
7.	Electricity Usage: Lightening/appliances/office electrical equipment.	Energy consumption in the University:	• Depletion of resources. • Increase the pollution level.

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8.	Vehicular Movement & Access	Traffic and transportation in the University	• Release of dust from un-surfaced roads. • Increase in noise level. • Increased localized traffic movements and congestion in the parking area.

9.	Printed material: flyers, newspapers, posters, others	• Paper use
		• Printing
		  ○ Internally – electricity use
		  ○ Externally: transportation
		Energy usage
			• Raw materials (paper)
			  – Unsustainable forestry, habitat loss, biodiversity, air pollution.
			• Contribution to climate change: air pollution.
			• Contribution to climate change: land degradation.

➢ DATA COLLECTION

In order to audit the legal compliances, all the required documents as per the norms and standards applicable for construction/expansion of the University are listed and collected. Similarly, the existing environmental conditions were examined through the site observations.

➢ DATA ANALYSIS

- **DOCUMENT ANALYSIS**

- As per the Environment Protection Rule 1986, the University is supposed to submit the Environmental Statement in the prescribed Form V. The University is regularly submitting the Statement to the State Pollution Control Board.
- The University is having an agreement with the M/s Raj Murti Co-operative Labour and Construction Society Limited. The agreement is for the period from 21.12.2017 to 20.12.2020. The University is having Hazardous Waste Authorization and maintaining the records of Manifest.
- Also, the University is filing annual returns of hazardous waste. The records show that the University provides its hazardous waste to the vendor within 90 days of the generation of waste. Sub Rule (5) under Rule 6 of **Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2016** mentions that every occupier authorized under these rules, shall maintain a record of hazardous and other wastes managed by him.
- As per **Bio-Medical Waste (Management and Handling) Rules, 2016**, The University

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shall maintain and update on day to day basis the bio-medical waste management register in terms of category and color coding as specified in Schedule I. It is observed that the University is maintaining the record of day-to-day basis the bio-medical waste management registers.

- University has obtained NOC for access to retail outlet/property from The Ministry of Road Transport of Highways, Govt. of India, New Delhi, in the year 2014.
- Environmental Clearance has been obtained by the university in revenue Estate of Village – Sohna, Gurgaon.

- **MONITORING REPORT**

The University is conducting quarterly monitoring of STP outlets, stack emission, and DG noise from ISO certified laboratory.

- For STP outlet, the parameters such as pH, total suspended solid, chemical oxygen demand (COD), biological oxygen demand (BOD), oil and grease are tested. The recent monitoring carried out in February 2018, shows that the parameters are within the limit as per CBCB norms.

- The University is regularly monitoring the DG stack emission and noise. The monitoring results shows that the emission from the DG sets are within the limit and so the noise.

- **MANAGEMENT MEASURE**

In the above **Table 3**, the aspect and impact matrix of the University is given. The University is following different management measures to reduce the possible impacts. The overview of the same is given in Figure 3.1 while the detailed measures taken for each component are explained in **Table 4.**

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Table 4: Management Measures

S. No	Aspects	Impacts	Management Measures
1.	Water consumption	Depletion of water sources.	• **Water Recycling:** The University is having the STP of capacity 1 X 100 KLD. The treated water is used for flushing, landscape irrigation, and dust suppression. The treated water is tested each time before its use internally while quarterly monitoring is carried out from accredited laboratories. • Use of a low flow tap. • Rain water Harvesting Pits: 17 rainwater harvesting pits are present in the University.
2.	DG sets Operations • Air Emission • Waste generation: spent oil • Noise nuisances • Leakages	• Increase the pollutant into the air. • Spent oil is a hazardous waste. • Increase in noise level. • Adverse impacts on the soil.	• Almost 72,000 sqm is under the landscaping and the University is planning to plant almost 4000 trees (as of today). This landscaping acts as a carbon sink. • The DG sets are provided with stack height as per the government notification for the DG sets i.e. 35 meters. Also, DG set is within the enclosure to reduce the noise nuisances. • The DG set is used only during emergencies. • The spent oil generated from the DG sets is given to the Bharat Oil and waste management Ltd. • Regular monitoring of DG sets. • Use of low Sulphur content diesel.
3.	Production of biodegradable solid wastes	• Soil contamination • Groundwater contamination • Health issues	The University is having the Organic Waste Converter and biodegradable wastes are converted into the compost which is further use as manure in the landscape area.
4.	Biomedical waste generation	Health issues from the waste if not disposed of properly.	Management as per Bio-medical Waste Management Rule 2016.

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5.	E-waste generation	Depletion of the resources	The University has an agreement with Bharat Oil and waste management Ltd. for E-waste Management.
6.	Energy consumption in the University:	• Depletion of resources. • Increase the pollution level.	Adoption of Energy efficient measures. Such as LED lights, light sensor lights.

7.	• Paper use
	• Printing
	  ○ Internally – electricity use
	  ○ Externally: transportation
	Energy usage
		• Raw materials (paper) – unsustainable forestry, habitat loss, Biodiversity, and air pollution.
		• Contribution to climate change: air pollution.
		• Contribution to climate change: land Degradation.
			• The University is having a paperless office policy and has discarded the use of paper cups.

➢ WATER MANAGEMENT

Water conservation is a key activity as water availability effects on the development of the campus as well as on all areas of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

SOURCES OF WATER

- Water from Municipal
- Water Bottles from Vendor

The source of wastewater is Domestic Waste Water i.e., Sewage water. The Sewage water mainly comes from Toilets of college, hostel, kitchen and canteen. One Sewage Treatment Plant was installed in the campus of 100 KLD. Total sewage treatment plant capacity is 100 KLD. The treated water is stored in tanks and further utilized for gardens. Low flush cistern and sensor-based water tapes have been installed in washrooms to minimize wastage of water.

- **SEWAGE TREATMENT PLANT**

The University has a **Sewage Treatment Plant of 100 KLD capacity**, which is utilized for treating waste water of the hostel and all other blocks. There is 100% utilization of liquid waste within the campus. The treated water is stored in tanks and further utilized for gardens. Low flush cistern and sensor-based water tapes have been installed in washrooms to minimize wastage of water.

- **RAINWATER HARVESTING**

Conserving and preserving of water is a key issue that has been addressed by the University in the form of Rain water harvesting. The campus has been practicing rainwater mechanism in site area of 26 acres approx. where there are 17 rain water harvesting pits (Not all pits were functional as required in the system) all over campus. This mechanism ensures increase in water table index. The detail of rainwater harvesting system has been designed by a certified architect and has been implemented

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Sohna Road, Gurugram, (Haryana)

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throughout the campus. Average yearly rainfall data of Gurugram tabulated below: -

Table 5: Average Yearly Rainfall Data

	Avg. Temperature °C (°F)		Min. Temperature °C (°F)		Max. Temperature °C (°F)		Precipitation / Rainfall mm (in)		Humidity (%)	Rainy days (d)
January	10.5 °C	(56.4) °F	7.6 °C	(45.6) °F	20.1 °C	(68.2) °F	23	0	66%	2
February	17 °C	(62.6) °F	10.5 °C	(50.9) °F	23.8 °C	(74.8) °F	31	-1	59%	3
March	22.8 °C	(73) °F	15.3 °C	(59.6) °F	30.2 °C	(86.3) °F	20	0	45%	2
April	29.4 °C	(85) °F	21.2 °C	(70.1) °F	37 °C	(98.6) °F	13	0	27%	2
May	31.1 °C	(91.6) °F	25.6 °C	(78.1) °F	40 °C	(104) °F	12	0	30%	4
June	33.4 °C	(93.1) °F	28 °C	(82.4) °F	38.7 °C	(101.6) °F	71	-2	45%	6
July	30.2 °C	(86.4) °F	26.9 °C	(80.4) °F	34.1 °C	(93.4) °F	197	-7	69%	13
August	29 °C	(84.2) °F	26 °C	(78.8) °F	32.6 °C	(90.7) °F	180	-7	75%	15
September	28.2 °C	(82.7) °F	24.1 °C	(75.4) °F	32.7 °C	(90.9) °F	90	-3	69%	8
October	27.8 °C	(78.4) °F	19.3 °C	(66.8) °F	32.4 °C	(90.4) °F	14	0	52%	2
November	20.8 °C	(69.4) °F	14.3 °C	(57.7) °F	27.8 °C	(82) °F	5	0	52%	1
December	15.5 °C	(59.9) °F	9.2 °C	(48.6) °F	22.4 °C	(72.3) °F	7	0	60%	1

Dimension of Rain Water Harvesting Pits and Desilting Pits as appended below: -

Water Harvesting Pits

- Depth - 3 Mtr
- Diameter – 3 Mtr
- Volume - 3X3X670 (average rainfall in mm) X.8 =3216 Liters/pit X17 Nos pits Total=54672 Liters

Desilting Pits

- Depth - 03 Mtr.
- Area - 3x3Mtr

- **WATER CONSUMPTION**

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Water.

The potable water (averagely 75 Bottles per day) is being procured for the university. On an average 60,500 Ltrs water per day is used in hostel. Water meter is not installed in the blocks, therefore actual consumption of water cannot be ascertained, and however approx. 24,100 Ltrs water is consumed in all blocks.

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STP.

A STP has been installed in campus which is capable of treating 100000 Ltrs water per 24 hrs. The STP is being run 12 hours per day as per contract, therefore on an average per day 50000 Ltrs of water is being treated. The treated water is used of irrigation of plants.

OIL

There are four DG sets in university as power back up during failure of main electrical supply. On an average per year 215 Ltrs waste oil is generated. The waste oil is contained in leak proof container and send to Head Office for further disposed-off.

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CHAPTER 4: CONCLUSION

It has been observed that the University is following the applicable norms/laws and undertaking the management measures to reduce emission to the air, waste generation, water consumptions, and measures to conserve energy, and water. Following conclusions are made based on the documents received from the University and site observations.

- The University is submitting environment Statement, and compliance reports as per the applicable norms. It is having an agreement with authorized vendors for the waste management and maintaining the records of the waste.
- The University has installed various measures for the environmental conservation such as STP, RWH pits, low flow taps, organic waste converter etc. Almost 85% of the area is under the green coverage in the University. The green coverage is well maintained and the compost from the OWC is used in it.

➢ AREA OF IMPROVEMENTS

- Specific Environment Management Plan to be prepared by the University and shall establish the Environment Management Cell with the proper responsibilities.
- It is suggested to the University to maintain the records of waste generated by them in the Forms as prescribed in the waste management rule.
- The used paper (if any) can be sent to external unit for the recycling. The recycled paper can be used in the University in the form of calendar, diaries, files/folders etc.

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Sohna Road, Gurugram, (Haryana)

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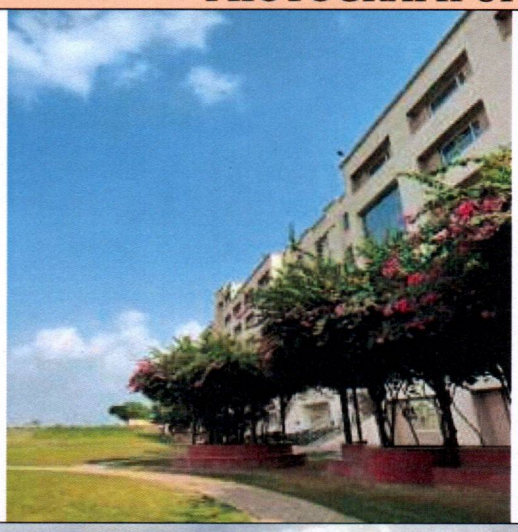
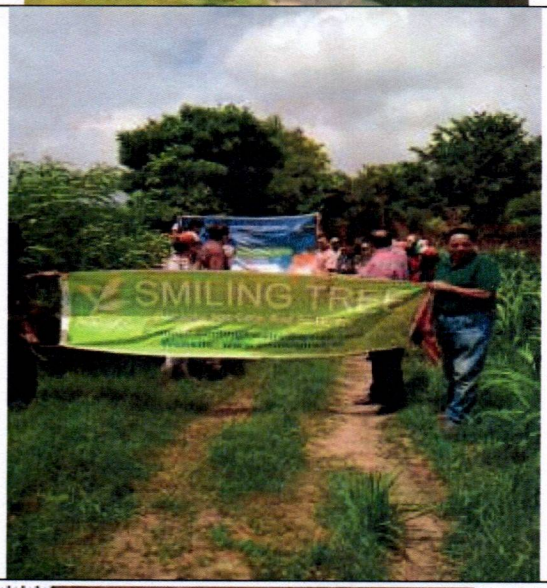
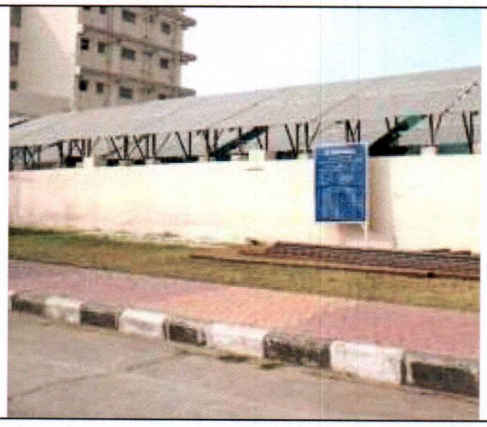
PHOTOGRAPH OF CAMPUS GREEN AREA







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ANNEXURE

Annexure 1: Environment Clearance

296

GOVERNMENT OF HARYANA
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA
Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA.

No. SEIAA/HR/2011 134 Dated: 22-2-11

To

M/S MANGALAM EDU GATE Pvt. Ltd.
843, Ward No. 6, Main Bazar Mehrauli,
New Delhi- 110 030

Subject: Environmental Clearance for Institutional College (Engineering Collage, Higher Education cum management Institute) in Revenue Estate of Village- Sohna, Gurgaon.

Dear Sir,

This has reference to your application no. Nil dated 02.11.2010 addressed to M.S. SEIAA Haryana received on 10.11.2010 and subsequent letters dated 31.12.2010 & 11.01.2011 seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Form1-A & Conceptual Plan and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 21.4.2008, in its meeting held on 11.01.2011 awarded **"Gold"** grading to the project.

[2] It is, interalia, noted that the project involves the Institutional College (Engineering Collage, Higher Education cum management Institute) in Revenue Estate of Village- Sohna, Gurgaon, Haryana. The CLU permission has been granted by Town and Country Planning Department on 08.03.2010 for setting up of Engineering College and Education-cum-Management Institute. The total plot area of the proposed project is 98711.826 sqmt. The proposed built-up area will be 80678.75 sqmt. The proposed complex will have Academic block, Boys hostel,

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

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Girl hostel, Teachers residence, Staff residence, Swimming pool, Play ground etc. The Project Proponent has submitted application with the PCCF, Forest Department Haryana for diversion of forest land for access to Institutional College. During construction phase the water requirement of 35 KLD for 2 years will be sourced from the tube-well located on land of Mr. Yoginder, Kila no. 26 village- Kaliyaka, Tehsil – Nuh District- Mewat. (Haryana). During operation phase the fresh water requirement of 473 KLD will be met from the same tube-well located on land of Mr. Yoginder, Kila no. 26 village- Kaliyaka, Tehsil – Nuh District- Mewat, (Haryana). 567 KLD of waste water will be generated which will be treated in the STP of 680 KLD capacity by primary, secondary and tertiary treatment. The entire treated water will be recycled & reused leading to zero discharge. Total solid waste generation will be 1500 kg per day which will be disposed off as per Solid Waste Management & Handling Rules. The project proponent has proposed to use bio-degradable waste for composting within the project area. The power requirement is 4500 KW which will be supplied by DHBVN. The total parking spaces proposed are for 1037 ECS. Total cost of the project is Rs.150 crores.

[3] The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations have recommended the grant of environmental clearance for the project mentioned above subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority hereby accords necessary environmental clearance for the project under Category 8(a) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

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PART A-

SPECIFIC CONDITIONS:-

Construction Phase:-

[i] A first aid room as proposed in the project report will be provided in both during construction and operation phase of the project.

[ii] Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the laborers is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.

[iii] All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.

[iv] Disposal of mock during construction phase should not create any adverse effect on the neighboring communities and be disposed of taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

[v] Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water and any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the Haryana State Pollution Control Board.

[vi] The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.

[vii] The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.

[viii] Ambient noise levels should conform to the Educational Institutional standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated Educational Institutional standards.

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Sohna Road, Gurugram, (Haryana)

For SAMARTH MANAGEMENT PRIVATE LIMITED

Authorized Signatory

[ix] Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August 2003.

[x] Ready mixed concrete must be used in building construction.

[xi] Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.

[xii] Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices as referred.

[xiii] Permission from Competent Authority for supply of water shall be obtained prior to operation of the project.

[xiv] Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.

[xv] Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.

[xvi] The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be obtained from the competent Authority.

[xvii] The project proponent will use water for construction phase through tankers from safe zone. However, prior permission from CGWA will be taken before using the bore well water for construction purposes.

[xviii] The project proponent will construct 25 (Twenty five) no. of rain water harvesting pits for recharging the ground water within the project premises.

[xix] The Project Proponent shall provide one under ground tank of 5 lac litre capacity for storage of rain water from roof and paved area and reuse the water after slow sand filtration for domestic purposes.

[xx] The Project Proponent shall not use ground water either directly from the bore-well or through tankers during the construction as well as operation of the project except as directed by the Hon'ble High Court. However, if the

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Project Proponent makes other arrangements, the same shall be subject to the approval of the Deputy Commissioner Gurgaon.

[xxi] The project Proponent shall submit the copy of approved layout plan / building plan in the office of SEIAA before the start of construction.

Operational Phase:

[i] The STP shall be installed for the treatment of the sewage generated to the prescribed standards including odor and treated effluent will be recycled to achieve zero exit discharge. The STP should be installed at the remotest place in the project area.

[ii] Separation of the grey and black water should be done by the use of dual plumbing line. Treatment of 100% grey water by decentralized treatment should be done ensuring that the re-circulated water should have BOD maximum upto 10 pm and the recycled water will be used for flushing, gardening and DG set cooling and running of fountain in the water body.

[iii] For disinfections of the treated wastewater ultra violate radiation or ozonization should be used.

[iv] The solid waste generated should be properly collected and segregated. Bio-degradable waste will be decomposed at site and dry/ inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.

[v] Diesel power generating sets proposed as source of back up power for lifts, common area illumination and for domestic use should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The location of the DG sets should be in the basement as proposed by the project proponent with appropriate stack height i.e. above the roof level as per the CPCB norms. The diesel used for DG sets should be of low sulphur contents (maximum 0.25%).

[vi] Ambient Noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the Educational Institutional Complex.

[vii] The project proponent should maintain at least 20% as green cover area for tree plantation especially all around the periphery of the project and on the

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road sides preferably with local species so as to provide protection against particulates and noise. The open spaces inside the plot should be preferably landscaped and covered with vegetation/grass/ ornamental plants.

[viii] Weep holes in the compound front walls shall be provided to ensure natural drainage of rain water in the catchments area during the monsoon period.

[ix] Rain water harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment through sedimentation tanks must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.

[x] The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.

[xi] There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be utilized.

[xii] A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submitted to the SEIAA, Haryana in three months time.

[xiii] Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels must be adapted to the maximum extent possible for energy conservation.

[xiv] The solid waste generated should be properly collected and segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The bio-degradable waste should be composted by vermi-composting at the site ear marked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.

[xv] The provision of the solar water heating system shall be as per norms specified by HAREDA and shall be made operational in each building block.

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should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana.

[viii] The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from Forestry angle shall be entirely at the cost and risk of the Project Proponent and SEIAA, Haryana shall not be responsible in this regard in any manner.

Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.

Endst. No. SEIAA/HR/2011 Dated:.....

A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MOEF, GOI, CGO Complex, Lodhi Road, New Delhi.
2. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector 31, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, Pkl.

Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.

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Annexure 2: Forest Department NOC

प्रेषक

उपायुक्त,गुडगांव।

सेवा मे,

M/s Manglam Edu Gate,
843 Ward No. 6 Main Bazar,
Mehrauli New Delhi

क्रमांक 93 /एम.बी. दिनांक 04.07.13

विषयः- **Request for issuance of Report to this effect that applicants land is non forest land and not covered/fall under Aravali notification.**

उपरोक्त विषय पर आपके प्रार्थना पत्र के सन्दर्भ में।

विषयोक्त मामले मे इस कार्यालय द्वारा उक्त प्रार्थना पत्र पर तहसीलदार सोहना व जिला वन अधिकारी, गुडगांव के रिपोर्ट मांगी गई। जो निम्न प्रकार है:-

1. तहसीलदार, सोहना ने पटवारी हल्का रिपोर्ट अनुसार कीला नम्बरान 42//17-18-23-24-26,53//8-9-10-11-12-13-18/1-19/1-23,54//3-4-6-7/1-7/2-8-9/2-10/2-11-12-13-14/1-14/2-15-17-18-19-20,55//6/2-15-16,71//3/1 कुल रकबा 209 कनाल 6 मरला की बरूवे इंतकाल न0 18873 से मंगलम एडयूगेर मालक है। रिकार्ड माल मे अरावली नोटिफिकेशन से सम्बन्धित कोई इन्द्राज नही है व रिकार्ड माल मे उपरोक्त खाना किस्म चाही है तथा रिकार्ड माल मे उपरोक्त रकबा शामलात देह या अन्य किसी सरकारी संस्था का नही है।"।

2. Deputy Conservator of Forest, Gurgaon की रिपोर्ट अनुसार M/s Manglam Edu Gate 843 Ward No. 6 Main Bazar Mehrauli New Delhi vide letter no. Nill Dated 17-02-12 made a request in connection with land measuring 26.13 acres having Rect.No. 42//17, 18, 23, 24, 26 Killa No. 53//8, 9, 10, 11, 12, 13, 18/1, 18/2, 19/1, 23 Rect.No. 54//3, 4, 6, 7/1, 7/2, 8, 9/2, 10/2, 11, 12, 13, 14/1, 14/2, 15, 17 Killa No. 54//18, 19, 20 Rect.No. 55//6/2, 15, 16 Rect. No. 71//3/1 Land located at village Sohna District Gurgaon. Applicant made a proposal to use this land for **Engineering College & Higher Education** Purpose. In continuation of report submitted by RFO, Sohna vide letter no. 378-S dated 05-03-12 and approved from C.F. South Circle, Gurgaon vide letter No. 2773 dated 20-09-12, it is made clear that:

(A) As per record available above said land is not part of notified/closed area under IFA 1927/FCA/1980/specific section 4 & 5 of PLPA 1900/WLPA 1972/or any other forest land.

(B) It is clarified that by the Notification No. S.O.121/PA.2/1900/S.4/97 dated 28-11-1997, all revenue estate of Gurgaon District is notified u/s 4 of PLPA 1900 and s.o.

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For SAMARTH MANAGEMENT PRIVATE LIMITED

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113/PA.2/1900/S.3/97 dated 17-11-1997 u/s 3 of PLPA. The area is however not recorded as forest in the Government record but felling of any tree is strictly prohibited without the permission of Divisional Forest Officer, Gurgaon.

(C) Although the user agency has applied case for diversion of Forest Conservation Act 1980 for access to M/s Manglam Edu Gate 843 Ward No. 6 Main Bazar Mehrauli New Delhi . land located at village Sohna Gurgaon is strictly prohibited unless approval from Ministry of Invironment & Forest is obtained by user agency.

(D) As per record with the Forest Department, Gurgaon, the area does not fall under Aravali Project Plantation done by the Forest Department.

(E) All other statutory clearance mandated under the Environment Protection Act, 1986 or any other Act/order shall be obtained as applicable by the project proponents from the concerned authorities.

(F) The project proponent shall ensure that Judicial orders/Pronouncements issued by the Hon'ble Supreme Court/High Courts.

(G) It is clarified that the Hon'ble Supreme Court has issued various Judgment dated 06-05-02, 29-10-02, 16-12-02, 18-03-04 etc. Pertaining to Aravali region in Haryana, Should be followed.

अतः उक्त रिपोर्ट तहसीलदार, सोहना तथा उप-वन संरक्षक, गुडगांव अनुसार वर्णित खसरा व किला न0 अरावली क्षेत्र में नहीं आता है।

For Deputy Commissioner
कृते: उपायुक्त, गुडगांव।
4/7/13

Registrar
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Sohna Road, Gurugram, (Haryana)

For SAMARTH MANAGEMENT PRIVATE LTD.
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Annexure 3: Highway Authority NOC

PUBLIC WORKS DEPARTMENT, HARYANA
(Building & Roads Branch)

Office of the Resident Engineer
A.D.B Division No.I, P.W.D. B&R Branch
Sector -16 A Faridabad (Haryana) – 121002
Tel. 0129-2281652 (Fax) – 0129- 2261389
E-mail : pwd.readbfbd@gmail.com

To

Memo No 2265 Dated 27/11/2014

K.R Manglam Institute
Km 22.100 (LHS)
Gurgaon Alwar Road NH-248A

Subject: **Gurgaon Alwar Road National Highway No.248A from Rajeev Chowk Gurgaon to Nognon Rajasthan Border.**

The Ministry of Road Transport of Highways, Govt. of India New Delhi vide its notification dated 04/03/2014 declared Gurgaon Alwar Road as NH-248A. You have already started / completed approach road directly from the NH-248A. As per Ministry's Guidelines dated 24/07/2013 you have to obtain NOC for access to your retail outlet / property / company.

Therefore it is advised that submit your NOC case in the office of the undersigned within 15 days otherwise approach road will be disconnected from the NH-248A.

DA/Nil

Sub-Divisional Engineer
Provincial Sub Division (NH)
P.W.D. B & R, Taoru

Resident Engineer,
ADB Project Division no. I,
PWD B&R Br., Faridabad.

Endst. No. Dated

Copy forwarded to the Sub Divisional Provincial NH Taoru for information and necessary action please. He is requested to deliver the notice to the concerned and dated acknowledgement may be sent to this office. It is further added that if any company / Retail Outlet / Private property shall not submit their request for obtaining NOC from the undersigned, the approach road of the said owner may be disconnected from NH accordingly.

DA/Nil

Resident Engineer,
ADB Project Division no. I,
PWD B&R Br., Faridabad.

2870 | Drawing Branch/Office Letter

Received 08/12/14

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

For SAMARTH MANAGEMENT PRIVATE LIMITED
Authorized Signatory

To

M/s Mangalam Edu Gate,
843, Ward No. 6, Main Bazar,
Mehrauli, New Delhi 110 030.

Memo No. 8255 Dated: 7-9-12.

Subject: - Permission for laying means of access for setting of Engineering College and Higher Education-cum-Management Institute at Village Sohna on Delhi-Alwar road at RD 22.300 LHS in Gurgaon Distt.

Reference:- Your application dated 18.07.2012.

In accordance with the plan submitted by you, permission is hereby accorded to lay 02 Nos. means of access to ingress and outgress for setting of Engineering College and Higher Education-cum-Management Institute at Village Sohna on Delhi-Alwar road at RD 22.300 LHS in Gurgaon Distt. subject to the following conditions:-

1. That cross-drainage will be provided by you at your own cost.
2. That the lease charges has been deposited @ Rs. 1.60 Lacs one time for 15 years vide DD No. 336698, 336699 dated 16.07.12.
3. That the approach should be constructed at least 9 inches lower than the PWD road.
4. That the approach constructed in PWD land will be the property of PWD but shall be maintained by you and the department will have right to remove the access/approach without any further notice.
5. That take off point shall be improved according to land available to avoid accident.
6. The permission is valid for 15 (fifteen) years and should be renewed every year.
7. That there should be no encroachment on PWD land in shape of fencing or boundary wall etc.
8. The work of service lane will be constructed as per drawing approved by this office under the supervision of concerned Sub Divisional Engineer.
9. That a separate NOC shall be obtained from the forest department.

DA/ Lease deed, Agreement, site plan.

Executive Engineer.,
Provincial Division No. 1
PWD B&R Br., Gurgaon.

Endst No. Dated:

A copy of above is forwarded to Sub Divisional Engineer Provincial Sub Division No.1 PWD B&R Br., Gurgaon information w.r.t. his report dated 27.08.2012 bearing No. 490..

DA/Nil

Executive Engineer
Provincial Division No.1
PWD B&R Br., Gurgaon

For SAMARTH MANAGEMENT PRIVATE L...

Authorized Signatory

Registrar
K.R. Mangalam University
Sohna Road, Gurugram, (...na)