Samarth Consultants

ENVIRONMENT AUDIT REPORT

K. R. MANGALAM UNIVERSITY

Sohna Road, Gurugram, Haryana 122103

Audit Date – 2nd Feb, 2020

Audit Conducted by:

Samarth Consultants

M/S SAMARTH CONSULTANTS

212, BHERA ENCLAVE, PASCHIM VIHAR, DELHI, 110087

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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 **02 FEBRUARY 2020**

For SAMARTH MANAGEMENT PRIVATE LIMITED
Samarth Suri
Authorized Signatory

CERTIFICATE NO. **SMPL/2020/C-0011** DATE OF ISSUE **14-02-2020** AUTHORISED SIGNATORY

CONDUCTED BY

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LIST OF ABBREVIATIONS	
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
KLD	Kiloliter per Day
Kg	Kilogram
LED	Light-emitting diode
PVC	Photovoltaic cell

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CHAPTER 1: INTRODUCTION

1.1 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 Consultants have been appointed by 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 environmental 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.

1.2 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.

As we have stepped into the innovative world, we have gained exposure to unlimited learning and employment opportunities beyond the social and geographical boundaries. K.R. Mangalam University being a progressive learning platform is a host to knowledge-seekers from across the globe. KRMU has signed MOU with University of Portsmouth (London), University of Bialystok (Poland), Namangan Engineering Construction Institute (Uzbekistan), Houston University (Texas), Roehampton University (London) and many more under which many articulations are being designed for advanced learning programmes.

K.R. Mangalam University aspires to become an internationally recognized institution of higher

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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

1.3 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**:

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	2019	KR Mangalam has taken Consent to Establish from Haryana State Pollution Control Board.
4	2019	KR Mangalam has taken the Fire NOC from Fire Department

1.4 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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1.5 ABOUT THE AUDITORS

M/S SAMARTH CONSULTANTS 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 consultant 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. Samarth Suri	**Auditor**
Mr. Vaibhav Mitra	**Auditor**

1.6 REPORT STRUCTURE

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

Chapter 1: **Introduction** briefs on project background, project status, audit objectives.

Chapter 2: **Approach & Methodology briefs the** methodology and approach followed to conduct Environment Audit

Chapter 3: **Data Collection and Analysis** explains the norms applicable to the University and management measures undertaken by it.

Chapter 4: **Conclusion** elucidates the findings of the audit report and area for improvements

1.7 DISCLAIMER

Samarth consultant 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

2.1. 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 Samarth consultant 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 consultant 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 equipment's 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.

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.

3.1 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.

3.2 DATA ANALYSIS

3.2.1 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 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.
- Renewal of Fire NOC in 2019, 15 mtrs and above height from the fire Safety Point of View of the Group B-Educational Building at Engineering College and Higher Education Cum Management Institute in Village Sohna, Gurugram Mis Shakuntia Reality Pvt. Ltd.).

3.2.2 MONITORING REPORT

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

- For STP outlets, the parameters such as pH, total suspended solid, chemical oxygen demand (COD), biological oxygen demand (BOD), oil and grease are tested. The recent monitoring shows that the parameters are within the limit as per CPCB norms.
- The University is regularly monitoring the DG stack emission and noise. The monitoring results show that the emissions from the DG sets are within the limit and so the noise.

3.2.3 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 the Figure 3.1 while the detail measures taken for each component are explained in the **Table 4.**

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

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			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). These 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.
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 used 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.
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	• Raw materials (paper) – unsustainable forestry, habitat loss, Biodiversity, and air	• The University is having a paperless office policy and has discarded the use of paper cups.

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	use o Externally: transportation Energy usage	pollution. • Contribution to climate change: air pollution. • Contribution to climate change: land Degradation.	

3.3 WASTE MANAGEMENT

3.3.1 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.

3.3.2 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 are functional as not required in current system) all over campus. This mechanism ensures increase in water table index. The detail of rain water harvesting system has been designed by a certified architect and has been implemented 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

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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

3.4 WATER MANAGEMENT

Water conservation is a key activity as water availability effects on the development of the campus as well as on all area 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 100KLD. The treated water is stored in tanks and further utilized for gardens. Low flush cistern and censor-based water tapes have been installed in washrooms to minimize wastage of water.

The following type of waste is being generated in the university campus and quantity is calculated based on average of certain items received and the waste material sold out to vendors during last years: -

Liquid

Water

The potable water (averagely 55 Bottles per day) is being procured for the university. On an average 50,500 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. 23,300 Ltrs water is consumed in all blocks.

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.

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OIL

There are 3 DG sets in university as power back up during failure of main electrical supply. On an average approx 180 Ltrs of waste oil was generated this year. 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.

1. 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.
2. The University has installed various measures for the environmental conservation such as STP, RWH pits, low flow taps, organic waste converter etc. Almost 52, 000 sq. m 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.
3. The regular monitoring of STP water, DG stack and DG noise is carried out by the University.

4.1. AREA OF IMPROVEMENTS

- The University is having a provision for the solar PVC, however, it is recommended to increase the solar power plan. Also, installation and maintenance of water meters at the suitable places to measure the quantity of water used in various processes is also recommended.
- The University shall conduct the water audit annually. Water auditing is a systematic & scientific examination of water accounts of the University. It is a tool to overcome shortage, leakage and losses of water in the University.

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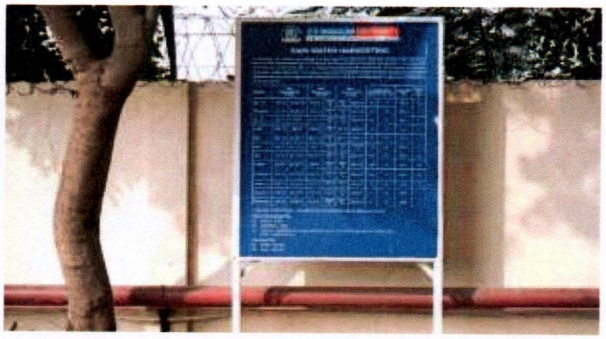
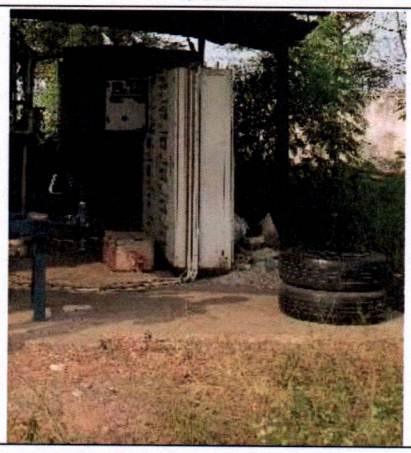
PHOTOGRAPHS

Greenery

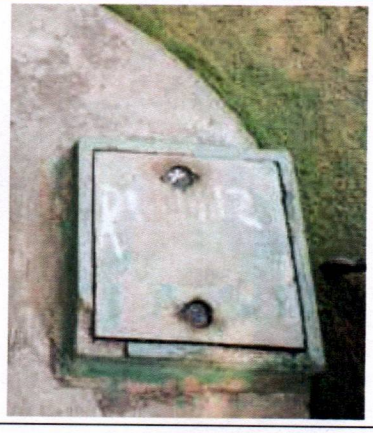
Rain Fall Data



STP



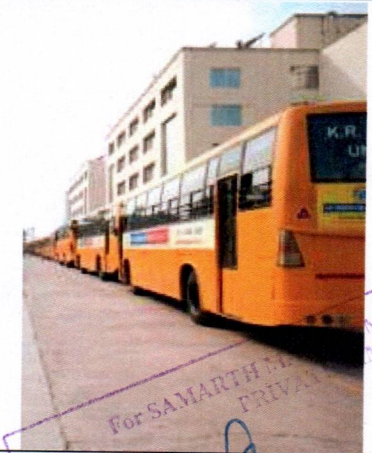
Rain Harvesting Pit



Waste Management

Solar Panels

CNG Buses



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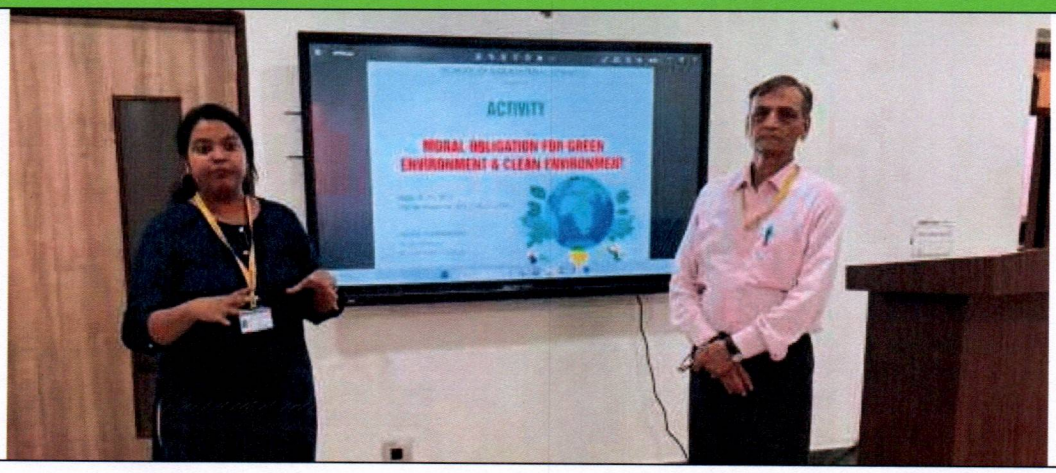
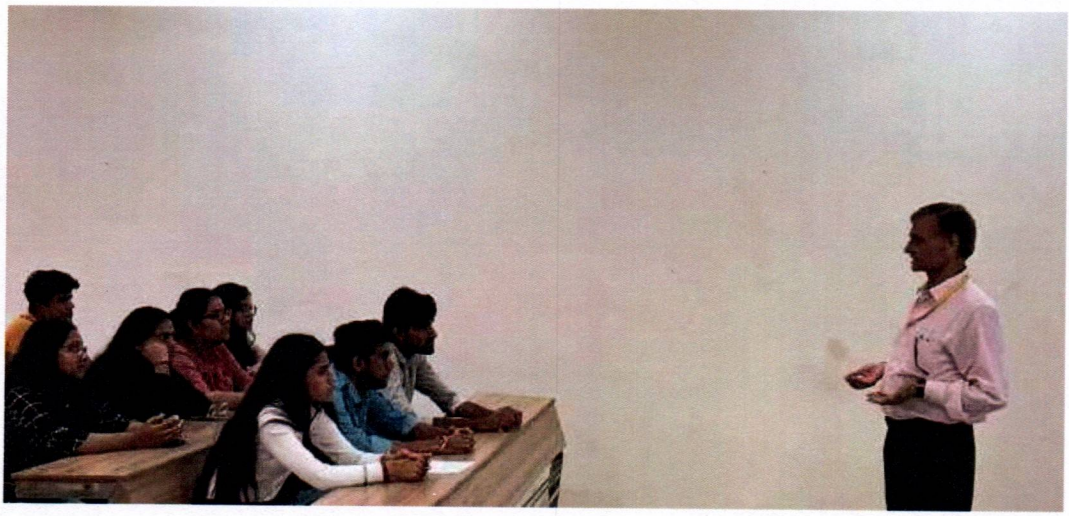
INITIATIVE/ACTIVITY THROUGH ENVIRONMENT

KRMU under its Green Campus Initiatives adopts an eco-friendly activity each year in order to keep up its commitment as per the Green Policy.

CAMPAIGNS FOR AWARENESS ON MORAL OBLIGATION FOR CLEAN AND GREEN ENVIRONMENT





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ANNEXURE

Annexure 1: Environment Clearance

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

For SAMARTH MANAGEMENT PRIVATE LIMITED
Authorized Signatory

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 PVT. LTD.

[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. Howeve., if the

Registrar
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For SAMARTH MANAGEMENT PRIVATE LIMITED
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For SAMARTH MANAGEMENT PRIVATE LIMITED
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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.

For SAMARTH MANAGEMENT PRIVATE LIMITED
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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 बरखे 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।

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For SAMARTH MANAGEMENT PRIVATE LIMITED
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Annexure 3: **Air/Water Consent of Establish**

HARYANA STATE POLLUTION CONTROL BOARD
Gurgoan North Vikas Sada, 1st Floor, Near DC Court, Gurgaon Ph. 0124-2332775
Website: www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com
Telephone No.: 0172-2577870-73

No. HSPCB/Consent/ : 329973819GUNOCTE6681516 **Dated:30/07/2019**

To.

M/s : MANGALAM EDU GATE
GURUGRAM SOHNA ROAD, STATE HIGHWAY NO. 13, GURUGRAM
GURGAON
122103

Sub. : Grant of consent to Establish to M/s MANGALAM EDU GATE

Please refer to your application no. 6681516 received on dated 2019-07-03 in regional office Gurgaon North.

With reference to your above application for consent to establish,M/s MANGALAM EDU GATE is here by granted consent as per following specification/Terms and conditions.

Consent Under	AIR/WATER
Period of consent	30/07/2019 - 29/07/2024
Industry Type	Sewage treatment plant having capacity 100 KLD or more
Category	RED
Investment(In Lakh)	8601.65039
Total Land Area (Sq. meter)	98711.83
Total Builtup Area (Sq. meter)	11690.0
Quantity of effluent	
1. Trade	0.0 KL/Day
2. Domestic	567.0 KL/Day
Number of outlets	1.0
Mode of discharge	
1. Domestic	STP
2. Trade	
Permissible Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
Permissible Trade Effluent Parameters	
1. NA	mg/l
Number of stacks	1
Height of stack	

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For SAMARTH MANAGEMENT PRIVATE LIMITED
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1. DG Stack	3 meters
Permissible Emission parameters	
1. NA	
Capacity of boiler	
1. NA	Ton/hr
Type of Furnace	
1. NA	
Type of Fuel	
1. Diesel	0.3 KL/day

Regional Officer, Gurgaon North

Haryana State Pollution Control Board.

Terms and conditions

1. The industry has declared that the quantity of effluent shall be 567 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 567 KL/Day for Domestic and the same should not exceed .
2. The above 'Consent to Establish' is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.
3. The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable
4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.
5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act,1981 as amended to-date-even before starting trial production
6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.
7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience
8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.
9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.
10. Unit will maintain proper logbook of Water meter/sub meter before/after commissioning.

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For SAMARTH MANAGEMENT PRIVATE LIMITED

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11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.

12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.

13. That the industry or the unit concerned is not sited within any prohibited distances according to the Environmental Laws and Rules, Notification, Orders and Policies of Central Pollution control Board and Haryana State Pollution Control Board.

14. That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.

15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.

16. That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.

17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.

18. Industry should adopt water conservation measures to ensure minimum consumption of water in their Process. Ground water based proposals of new industries should get clearance from Central Ground Water Authority for scientific development of previous resource.

19. That the unit will take all other clearances from concerned agencies, whenever required.

20. That the unit will not change its process without the prior permission of the Board.

21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.

22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-leachate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.

23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.

24. That unit will obtain EIA from MoEF, if required at any stage.

25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.

26. That unit will obtain consent to operate from the board before the start of product activity.

Specific Conditions

Other Conditions :

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For SAMARTH MANAGEMENT PRIVATE LIMITED
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1. The unit will obtain consent to operate before the occupation of the project. 2. The unit will install STP along with the main project. 3. The unit will install the project only on the land for which Town and Country Planning Department has given license. 4. The NOC is valid only for such land within this project which is under ownership of project proponent and for which report regarding Aravali area has been issued by DC, Gurgaon. 5. The unit will install adequate acoustic enclosures/chambers on their DG SETS with proper stack height as per prescribed norms to meet the prescribed standards under EP Rules, 6. Unit will apply for CTO/ CTE Extension at least 90 days before expiry date of this CTE 7. Unit will comply with the guide lines issued by CPCB on Environment Management of construction and Demolition Waste issued after the Construction and Demolition Waste Management Rules, 2016 notified by MOEF. 8. Unit will obtain all necessary clearance from all concerned authorities.

Kuldeep Singh

Regional Officer, Gurgaon North

Haryana State Pollution Control Board.

HARYANA STATE

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

For SAMARTH MANAGEMENT PRIVATE LIMITED

Authorized Signatory

4/24/2019 ULB:GBReceipt

Directorate of Urban Local Bodies, Haryana
GB Receipt
Municipal Council Sohna

Book No:	07	Serial No:	16
Demand No:	123	Demand Date:	24/04/2019
GBReceipt No:	050141928000942	GBReceipt Date:	24/04/2019
Mobile No:	88******98	Verify Code:	14BFB
Property ID:	00001Z00001A0A0145	Payment Mode:	Draft
Draft No:	871066	Draft Date:	20/04/2019
Bank Name:	YESB		
Remarks:	2018 2019		

It is certified that following amount is recieved from Mr./Mrs. KR MANGALAM UNIVERSITY S/D/W/D KR MANGALAM, R/O DELHI ALWAR ROAD WARD NO 21 SOHNA on account of **Property Tax** . In case of Draft and Cheque, amount will be credited in to the account of Municipal Council Sohna only after realization of Draft and Cheque.

Charges Detail

SrNo.	Fee Name	Fee Amount	Remarks
1	Property Tax	250000.00	
2	Fire Tax	25000.00	
	Total Amount:	**275000.00**	

Received By:
Bijender Kumar

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

For SAMARTH MANAGEMENT PRIVATE LIMITED
Authorized Signatory

From Assistant Divisional Fire Officer/Fire Station Officer
Municipal Corporation Gurugram

To M/s Manglam Edu Gate formerly known as Ms Shakuntla Reality Pvt Ltd
Village Sohna, Gurugram

Memo No. FS/2019/1526 dated : 31/05/2019

Subject: **Renewal of No Objection Certificate 15 mtrs. and Above height from the fire Safety Point of View of the Group B-Educational Building at Engineering College and Higher Education Cum Management Institute in Village Sohna, Gurugram of M/s Manglam Edu Gate (formerly known as M/s Shakuntla Reality Pvt. Ltd.) :**

Reference to you online No 050281923000047 dated 15/04/2019 on the subject cited above.

Tower Name	Floor Detail	Height	Ground Coverage
Block-A	G to 4th	21.35 Mtrs	2478.253 Sqm
Block-B	G to 4th	21.35 Mtrs	1743.920 Sqm

Basement Level	Basement Area	Remarks
B-1	2478.253 Sqm	Block-A
B-2	1743.920 Sqm	Block-B

Your site for the Renewal of the Fire NOC has been inspected by the Team of Fire Station Officers, **Municipal Corporation Gurugram** from fire safety Point of View. The means of escape and Fire Protection system were checked and found as per the National Building Code of India, Part- IV guidelines.

In view of the satisfactory fire protection system / arrangement mentioned as above, this office has no objection for occupation from the Fire Safety point of view, with the following conditions:-

1) The owner/occupier shall keep duly trained Fire Staff in all three shifts.
2) The Fire Protection System tested during inspection shall be maintained properly & always should be in good working condition.
3) If any lapse is found in the fire protection system at the time of inspection or detected during outbreak of fire, action will be taken as per rules against you.
4) You are directed to apply for Renewal of NOC in future before 2 month of expiry of your NOC.
5) The open set back area is not checked at our end as it shall be checked by concerned building department.
6) The owner/occupier shall strictly follow the other applicable rules/ regulations/ byelaws laid down regarding fire safety system. If you fail to comply with any of the above terms & conditions you will be liable to be punished as per fire ordinance 2009 specially chapter- III Section 31 Sub-Section 1 & 2 of Fire Act 2009.
7) You have to perform quarterly Fire Drill in your building as per NBC with intimation to Fire Department and video graphy evidence to be kept as a record which shall be produced at the time of next Renewal; Officials/Residents/R.W.A. should be mentioned in the drill.
8) If the Infringements of Byelaws remains un- noticed the Authority reserves the right to amend the NOC as and when any such Infringements comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.

The above Renewal of NOC is valid for **One** year from the date of issue of this letter Applying renewal of the same well in time shall be the responsibility of owner/occupier.

Remarks:- HR 840

ADFO
Municipal Corporation
Gurugram
Exercising the power of Director Fire Services Haryana
Digitally signed by ISAM SINGH KASHYAP
Date: 2019.05.31 13:38:39 +05:30
Reason: Digital Verification

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

For SAMARTH MANAGEMENT PRIVATE LIMITED
Authorized Signatory