7.1.3 Quality audits on environment and energy regularly undertaken

GREEN AUDIT REPORT

2021-2022

INTERNAL QUALITY ASSURANCE CELL
(IQAC)

Dr. Virambhai Godhaniya College of Arts, Commerce, Home Science and Information Technology for Girls, Porbandar

Green Audit Assessment Team

- Dr. Ketan D. Shah, Principal in Charge
- Dr.Rushi S. Pandya, IQAC Coordinator
- Shantiben Bhutiya, NCC CTO and Sports Coach
- Shri Sureshbhai Gorasiya, Head Clerk

CONTENTS

INTRODUCTION:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyze environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation toenvironmental sustainability is more prevalent.

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO_2 from the environment. It is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

OBJECTIVES:

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- To map the Geographical Location of the college
- To document the floral and faunal diversity of the college
- To record the meteorological parameter of Porbandar where college is situated
- To document the ambient environmental condition of weather, air, water and noiseof the college
- To document the waste disposal system

- To estimate the Energy requirements of the college
- To report the expenditure on green initiatives

METHODOLOGY:

The purpose of the green audit is to ensure that the practices followed in the campus are in accordance with the Green Policy of the country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.

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GREEN AUDITING:

The college has adopted the 'Green Campus' system for environmental conservation and sustainability. There are main three pillars i.e. minimum environmental foot print, positive impact on occupant health and performance and all students demonstrating environmental literacy. The goal is to reduce CO_2 emission, energy and water use, while creating atmosphere where students can learn and be healthy.

LAND USE ANALYSIS

GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE

Land use refers to man's activities and the various uses which are carried on and derived from land.Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape.

Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning, and change in the local, regional as well as at global scales over time.Satellite imagery particularly is a valuable tool for generating land use map.

METHODOLOGY ADOPTED FOR LAND USE MAPPING

Three types of data that are GPS points, field survey data and Google earth data for Geo referencing have been used in this study. Land use map of the study area have been prepared using the above three types of data.

DATA PROCESSING AND ANALYSIS

Land use map preparation is executed through the following steps:

Acquisition of data (Location: 21.63781472147612, 69.61713535026463), was done through Google Maps in PC and mobile phones and through physically moving around the area.

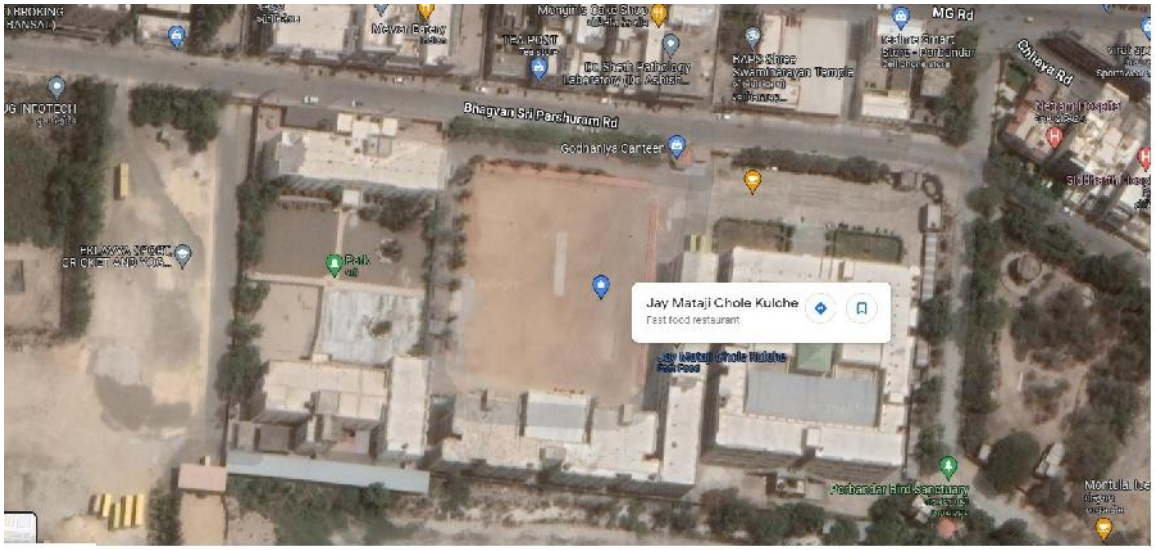
Therefore, attempt has been made in this study to map land use for the college witha view

to detect the land consumption in the built-up land area.

GEOGRAPHICAL LOCATION

The college has a pollution-free campus spread over 6 acres of land in the heart of Porbandar.

The image of college campus is shown in Photo 1.



GPS LOCATION: 21.63781472147612, 69.61713535026463

The built up area is as under:

Area	Square Feets	Square Meters
Totally Plot Area	269100.00	25000.00
Built Up Area	37674.00	3500.00
Open Area	231426.00	21500.00
Built Up Area of First Floor	36191.00	3365.00
Built Up Area of Second Floor	36191.00	3365.00

The college building has trees and is located near bird sanctuary with trees and lake.

FINDINGS:

Our institute has a long legacy of healthy environmental practices including periodic plantation, their preservation and maintenance. Its land use is such that about 50% of the total area is occupied by open land and plantation that generates a better and sustainable campus environment.

SR. NO.	AREA	NO. OF TREES
01	GARDEN IN THE COLLEGE	238
02	GARDEN IN THE CAMPUS	376
03	FRONT PARKING	28
04	BEHIND THE COLLEGE BUILDING	25
05	CANTEEN AND HOSTEL	89
06	SPORTS GROUND	82
07	MAIN PARKING AND NEW SPROTS GROUND	674
TOTAL		1512

Entrance

College Building

Parking

Canteen

Sports Ground

Hostel

NEW CONSTRUCTION

COLLEGE BUILDING MAIN ENTRANCE

OPEN AIR THEATRE

TREES IN THE CAMPUS

BIO-DIVERSITY IN PORBANDAR:

Porbandar is one of the mega bio diverse district of Gujarat as it contains 261 species of Birds, 22 species of Mammals, 39 species of Reptiles, 4 species of Amphibians, 55 species of Butterflies, and 759 species of Plants. A number of wetlands, both perennial and seasonal, are present in the Porbandar region. It has been observed that whenever there is a drought in this region, all the native as well as migratory birds get distributed in these satellite wetlands. These birds can be seen from the college as they arrive in the Bird Sanctuary adjoining the college building.

Porbandar is an administrative district of Gujarat located in the western part of the state with its head quarters located at Porbandar town. Porbandar was carved out of Junagadh district. There are some worth visiting wetland sites in and around Porbandar. Total 226 wetlands are mapped including 95 small wetlands (<2.25 ha) with 22199 ha area. Inland wetlands

contribute 27.3% of the total wetland area and coastal wetlands contribute 72.7% of the total wetland area. Major wetland categories of the district are Lagoons, Rivers/streams, Reservoirs and Sand/beach. Area under aquatic vegetation in post-monsoon is about 5451 ha. Open water spread of the wetlands is significantly higher in post monsoon (13390 ha) than during pre monsoon (7376 ha). Major portion of the open water area is under low turbidity during both seasons.

BIRDS FOUND NEAR THE CAMPUS

WEATHER DATA

In Porbandar, the wet season is oppressive and mostly cloudy, the dry season is muggy and mostly clear, and it is hot and windy year round. Over the course of the year, the temperature typically varies from 66°F to 92°F and is rarely below 61°F or above 96°F.
Based on the beach/pool score, the best times of year to visit Porbandar for hot-weather activities are from late January to mid April and from late October to late December.

Average Temperature in Porbandar

The hot season lasts for 1.3 months, from October 4 to November 13, with an average daily high temperature above 90°F. The hottest month of the year in Porbandar is June, with an average high of 89°F and low of 82°F.
The cool season lasts for 2.0 months, from December 21 to February 20, with an average daily high temperature below 84°F. The coldest month of the year in Porbandar is January, with an average low of 66°F and high of 82°F.

WASTE DISPOSAL:

Waste disposal are the activities and actions required to manage waste from its inception to its final disposal. This includes the collection, transport, treatment and disposal of waste, together with monitoring and regulation of the waste management process.

We keep separate dustbin for degradable and non-degradable waste which is regularly collected by the municipality and disposed off properly.

TRANSPORTATION:

Being a Higher Education Institute and located centrally in the city, our faculty, staff and students commute on their own. The college is dedicated to provide its students and staff all the comfortand convenience to help them to achieve their targets. The students are encouraged to use cycles which leads to fuel saving and also the contribution of pollutants to atmosphere is less.

ELECTRICAL POWER CONSUMPTION:

As a policy decision, the authority keeps on replacing the old filament bulbs, CFL bulbs and tube lights by low energy consuming LED bulbs and LED tubes and bulky high-power consuming fans by energy efficient fans in order to keep the electricity consumption of the college as low as possible.

In addition to making Environmental Studies a very vital subject in our syllabus, we have gone a step further by putting that theory into practice. The college has applied for installing solar panels.

PRINCIPAL
Dr. V. R. Godhaniya College of Arts
Commerce, Home Sci. & IT For Girls
Porbandar

ENERGY AUDIT REPORT

2021-2022

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Dr. Virambhai Godhaniya College of Arts, Commerce, Home Science and Information Technology for Girls, Porbandar

Energy Audit Assessment Team

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- Shri Hitesh Thanki, College Electrician
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Executive Summary

Energy today has become a key factor in deciding the product cost at micro level as well as in dictating the inflation and the debt burden at the macro level. Energy cost is a significant factor in economic activity at par with factors of production like capital, land and labor. The imperatives of an energy shortage situation call for energy conservation measure, which essentially mean using less energy for the same level of activity. Energy Audit attempts to balance the total energy inputs with its use and serves to identify all the energy streams in the systems and quantifies energy usage's according to its discrete function. Energy Audit helps in energy cost optimization, pollution control, safety aspects and suggests the methods to improve the operating & maintenance practices of the system. It is instrumental in coping with the situation of variation in energy cost availability, reliability of energy supply, decision on appropriate energy mix, decision on using improved energy conservation equipment's Instrumentation and technology.

Energy Audit is the key to a systematic approach for decision-making in the area of energy management. It attempts to balance the total energy inputs with its use, and serves to identify all the energy streams in a facility. It quantifies energy usage according to its discrete functions.

The Energy Audit would give a positive orientation to the energy cost reduction, preventive maintenance and quality control programmed which are vital for production and utility activities. Such an audit programmed will help to keep focus on variations which occur in the energy costs, availability and reliability of supply of energy, decide on appropriate energy mix, identify energy conservation technologies, retrofit for energy conservation equipment etc. The primary objective of Energy Audit is to determine ways to reduce energy consumption per unit of product output or to lower operating costs. The present report shows the energy audit of COER campus in terms of pre-audit phase, audit phase and post audit phase

1. Introduction

In broad sense, Energy Efficiency means economizing on the use of energy without adversely affecting economic growth and development. It includes improving the efficiency of energy extraction, Transmission and Distribution and increasing the productivity of energy use.

Designated consumers

Central Govt. specify the following criteria for energy Intensive Industries and other establishments. (As per EC Act 2001, Section 14(e)), for Industries Electrical connected load - 100 KVA and above Designated Consumers to get energy audit by Accredited energy audit firms

Bureau of Energy Efficiency (BEE)

The Bureau of Energy Efficiency is an agency of the Government of India, under the Ministry of Power created in March 2002 under the provisions of the nation's 2001 Energy Conservation Act. The agency's function is to develop programs which will increase the conservation and efficient use of energy in India

2. Energy Audit

As per the Energy Conservation Act, 2001, Energy Audit is defined as "the verification, monitoring and analysis of use of energy including submission of technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption".

There are three phase of Energy Audit

A. Pre audit phase
B. Audit phase
C. Post audit phase

Above phase include following stages

1. **Data Collection** –
   In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

   Following steps were taken for data collection:

- The team went to each department, centers, Library, canteen etc.
- Data about the general information was collected by observation and interview
- The Power Consumption of appliance was recorded by taking an average value in some cases.

2. **Data Analysis –**

Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, understanding the tariff plan provided by the Paschim Gujarat Vij Company Limited. Data related to water usages were also analyzed using

appropriate methodology.

3. Recommendation –

On the basis of results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels has to be reduced for the sake of community health.

A. Pre Audit Phase

Survey form for data collection

1. Preparing a list for ways the energy is used in the college. (Electricity, Electric Water Pump, Computer, AC, LPG, etc).
2. Electricity bill amount for the last five year
3. Amount paid for LPG cylinders for last one year
4. Details of the amount spent for petrol/diesel/ others?
5. Details of energy saving methods employed the college, if any.
6. How much money does the college spend on energy such as electricity, gas, etc. in a month?
7. How many CFL, bulbs has the college installed? Mention use (Hours used/day for how many days in a month
8. Energy used by each bulb per month.
9. How many LED bulbs are used in the college? Mention the use (Hours used day For how many days in a month)
10. Energy used by each bull per month? (kwh).
11. How many incandescent (tungsten) bulbs have been installed?
12. Mentions use (Hours used/day for how many days in a month)
13. Energy used by each bulb per month? (kwh).
14. How many fans are installed in the college? Mention use (Hours used day for how many days in a month)
15. Energy used by each fan per month? (kwh)
16. How many air conditioners are installed in college? Mention use (Hours used/day. for how many days in a month)
17. Energy used by each air conditioner per month? (kwh).
18. How many electrical equipments are installed?

19. Mention the use (Hours used /day for how many days in a month)

20. Energy used by each electrical equipment per month? (kwh).

21. How many computers are there in the college? Mention the use (Hours used /day for how many days in a month)

22. Energy used by each computer per month? (kwh)

23. How many photocopiers are installed by the college? Mention use (Hours used/day for how many days in a month).

24. How many cooling apparatuses are installed in the college? Mention use Hours used/day for how many days in a month)

25. Energy used by each cooling apparatus per month? (kwh)Mention use (Hours used/day for how many days in a month)

26. Energy used by each photocopier per month? (kwh) Mention the use (Hours used day for how many days in a month) how many inverters the college installed? Mentions use (Hours used/day for how many days in a month

27. Energy used by each inverter per month? (kwh)

28. How many electrical equipment are used in different labs of the college?
Mention the

29. use (Hours used/day for how many days in a month)

30. How many heaters are used in the canteen of the college? Mention the use (Hours used/day for how many days in a month)

31. Energy used by each heater per month? (kwh)

32. No of street lights in the college?

33. Energy used by each street light per month? (kwh)

34. No of TV in the college and hostels?

35. Energy used by each TV per month? (kwh)

36. Any other item that uses energy (Please write the energy used per month) Mention the use (Hours used/day for how many days in a month)

37. Are any alternative energy sources/non-conventional energy sources employed / installed in the college? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.)

38. Are your computers and other equipment put on power-saving mode?

39. Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby mode most of the time? If yes, how many hours?

40. What are the energy conservation methods adapted by the college?

41. Write a note on the methods/practices/adaptations by which you can reduce th use in the college campus in future.

B. Audit Phase

The energy auditing was done with the help of team comprising of staff. The energy audit began with the teams walking through all the different facilities at the college, determining the different types of appliances and utilities (lights, taps, toilets, etc.) as well as measuring the usage per item and identifying the relevant consumption patterns.

1. Data collection

Data collection was done in the sectors such as sources of Energy and energy consumption pattern, College records and documents were verified several times to clarify the data received through survey and discussions.

2. Site Tour

Site inspection was done. Questions were answered during the site tour and relevant documents were collected.

3. Review of Documents and Records

Documents such as electricity bills were collected and reviewed.

4. Site inspection

College and its premises were visited and analyzed by the audit-teams several times to gather information. Campus trees were counted and identified, Gardens, play grounds, canteen, library, office rooms and parking grounds were also visited to collect data.

5. Energy Sources

Transformer (step down), has been installed in campus for distribution of power to different units

Energy Consumption Table:

Sr.No.	Equipment Details	Unit	Rating (Watt)	Total Load
1	Tube Light	99	20	1980
2	Fan	158	60	9480
3	Water Pump	2	750	1500
4	Air Conditioner	20	1400	28000
5	Water Purifier	1	450	450
6	Computer	220	300	66000
7	Printer	15	150	2250
8	Scanner	2	150	300
9	Xerox Machine	1	1300	1300
10	Projector	12	250	3000
			Total Load in VA	**114260**

Billing History			
Sr.No.	Billing Period	Consumed Unit	Bill Amount
1	MAR,23 22	1885	13303.78
2	FEB,23 22	1234	8668.69
3	JAN,23 22	1940	13346.37
4	DEC,22 21	1937	13223.05
5	NOV,22 21	2597	17633.30
6	OCT,22 21	4334	29209.78
7	SEP,22 21	3639	24352.63
8	AUG,22 21	3633	24312.61
9	JUL,22 21	2836	18875.42
10	JUN,22 21	2311	15229.99
11	MAY,22 21	1049	6964.39
12	APR,22 21	1746	11529.12
13	MAR,22 21	2248	14841.99

6. Key Findings and Observations of Energy Usages

The base of energy audit is that its findings are supported by documents and verifiable information. The audit process seeks, on a sampled basis, to track past actions, activities, events and procedures to ensure that they are carried out according to systems requirements and in the correct manner. Energy audits form a part of a process. Although they are individual events, the real value of energy audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time.

Although audits are carried out using policies, procedures, documented systems and objectives as a test, there is always an element of subjectivity in an audit. The essence of any energy audit is to find out how well energy management equipment is performing.

Each of the three components is crucial in ensuring that the organization's performance meets the goals set in its energy policy.

7. Already Existing Power Saving Measures
   - We turn off electrical equipments when not in use.
   - False ceilings for maintaining optimum room temperature.
   - Resistance regulators being replaced with electronic regulators.
   - Master switches installed.
   - CFLs are being replaced by more efficient LEDs
   - We use computers and electronic equipments in power saving mode

8. Recommendations for Better Energy Efficiency

Based on the analysis of the power consumption data, certain steps have been recommended for improving energy efficiency of the campus. Complete cost analysis of implementation of recommended measures has been performed wherever necessary. Also, a number of general measures for energy efficiency have been listed. Described below are some important recommendations for better energy efficiency:

8.1. Housekeeping

Curtains - Always keep curtains on windows to prevent direct sunlight inside the room to avoid heating of cooled air. This reduces AC load significantly.

8.2. Better Practices for AC

The institute has in total 20 split type ACs which make a very large part of total energy consumption of the campus. But, at many places it was found that AC is not used with best recommended practices. Even simple things, such as insulation, are not taken care of. Window panes were found broken at many places. Also, at certain places ACs were found to be used without keeping curtains. These poor practices account for increase in AC load and thus consumption.

Summarized below are some guidelines for most efficient use of ACs:

- Proper Insulation - Good quality insulation must be maintained in the air-conditioned rooms by keeping all doors and windows closed properly so as to prevent cool air to go out and hot air come in.

- Operating – The ACs should be switched on 15 minutes before actual use and should be switched off before leaving the room.

Institutional Values and Social Responsibilities

The institution displays sensitivity to issues like climate change and environmental issues. It adopts environment friendly practices and takes necessary actions such as – energy conservation, waste management, green practices etc. Thus, the concerns for social responsibilities as well as the values held by the institution are explicit in its regular activities.

Alternate Energy initiatives such as:

Solar Rooftop System:

Our Institute has initiated process for installation of Solar Rooftop System for our Energy Consumption during annual period and the details as given below.

Power requirement supposed to meet by renewable energy sources (Assumption)	Total power requirement	Renewable energy source	Renewable energy to be generated and used	Energy supplied to the grid (assumed)
Approx 70000 KWh (Units)	Approx 43000 KWh (Units)	48.60 KW	43000 KWh (Units)	30000 KWh Annually

Estimated percentage of annual power requirement of the Institution will be met by the renewable energy sources100 %.

Consolidation of Audit Findings

- The communication process for awareness in relation to energy conservation is found adequate.
- Average power factor is maintained.
- Assessment of electrical load calculation has been done by the college.
- Monthly use of electricity in the college is not very high.
- Objectives for reducing energy, water and fuel consumption are sufficient.
- Energy efficient equipments are being used by replacing the old non-energy efficient equipments.
- Regular monitoring of equipments and immediate rectification of any problems is done.
- Institution will have Zero Emission Power Consumption fulfilled by Solar Rooftop System.

C. Post audit phase

Energy audits form a part of an on-going process. Innovative energy saving initiatives has to be designed and implemented every year to make the college environmentally sustainable. Follow up programs of energy auditing recommendations should be done meticulously before the next audit.

GUJARAT ENERGY DEVELOPMENT AGENCY

4th Floor, Block No. 11-12, Udyog Bhawan, Gandhinagar,
Ph: 079-23257251-54, GST. No. 24AAATG1858Q1ZA

Registration No.: PG/OTH/10097619 Date: 30-Nov-2022

To:

M/S MANAJING T. MALDEVJI ODEDARA
SMARAK TRUST RAN A C.CON, CONTROL ROOM NR BLRD SANT
Porbandar
Porbandar (M+OG)

Sub : Registration for Rooftop Solar PV (RTPV) system under Gujarat Solar Power Policy – 2021, G.R. No. SLR/11/20121/77/B1 dated 29th December 2020 and amendments thereof (the "Policy")

Ref : *1. Application No. GUJ/RT/OTH/10097619 dated 30.11.2022*
2. DisCom Consumer No. 82705027548 and Sanctioned Load/ Contract Demand 55 kW
3. Solar PV Capacity (AC) to be Installed 40 (kW) ; Plant DC Capacity to be Installed 48.60 (kW)

Dear Sir,

Thank you for your online application for setting up of a rooftop solar PV system. Your application is registered with GEDA and the Registration Number is PG/OTH/10097619.This Registration Number with the name of the applicant and the name of the Installer that you have selected must always be quoted for any communication with GEDA in this regards.

Your application is registered for installation of the rooftop solar system of 40 kW AC, 48.60 kW DC Capacity (the "Capacity") under Industrial/commercial Sector.

This Registration Letter is copied to the Installer selected by you, the Chief Electrical Inspector and to the DISCOM in whose service area the rooftop system is to be located, for their further process. The registration of your project shall be governed by the following terms and conditions:

1. This Registration is neither transferable to other applicant nor is transferable to any other Rooftop PV Installer. This Registration shall be governed by the provisions of the Solar Policy-2021 and its amendments thereof.

2. In the event if you have to change your selected Installer after the Registration, you need to cancel this Registration and apply under a fresh application

3. Irrespective of the kW rating of the system proposed to be installed.

4. You have registered the solar PV plant under the Clause no. 10.

5. You shall ensure that the location proposed for installation of the system is shadow free during the entire day and also keep the system clean and dust free for optimum output.

6. You shall sign the connectivity agreement with the DISCOM upon its ascertaining the technical feasibility of the system installation.

7. You shall allow access to your premises by representatives of GEDA/DISCOM/CEI for installation of bidirectional meter/inspection/verification of the system.

8. The bi-directional meter shall be installed in accordance to the technical specifications defined by the DISCOM.

9. The technical specifications of the Solar PV system and all its allied components, shall be mutually agreed between YOU and the INSTALLER selected by you.

10. It is YOUR sole responsibility to ensure and check all the components properly with the selected INSTALLER. In no case, GEDA shall responsible for the delay in installation, sub-standard material, low generation or any issue related to performance and quality. However, it is advisable to always install solar PV system in the shadow free area and with proper sizing and structures for maximum generation. Further, the Applicant shall check the requisite documents and reports from the suitable simulation tools on its own or through the Installer to ascertain the above mentioned points.

11. The Applicant, MANAJING T. MALDEVJI ODEDARA has given following signed undertaking in the application form for installation of the solar roof top system under this registration.

UNDERTAKING: I hereby agree that:

1. This Project is registered under the Capital Expenditure (CAPEX) mode, where the solar PV system is owned by me and electricity generated is used by ME.

2. I have on my OWN selected the Installer upon due diligence and have mutually agreed with the terms and conditions amongst ourselves.

3. I am aware that GEDA has no role whatsoever in the selection of the Installer/Vendor and thus GEDA is not responsible for INSTALLER’s technical and financial capabilities, quality and integrity, any kind of delay; financial or technical loss, quality and standards of the system and its components; theft, financial transaction done or any criminal assault occurred because of the selection of the Installer.

4. I am fully responsible for the Solar PV system that will be installed under this application.

5. I am aware that the Solar Policy -2021 and its amendments thereof under which this project is registered does not have any provision of subsidy or financial assistance.

6. I agree to abide by the provisions of the Solar Power Policy-2021 of the Government of Gujarat with all amendments thereof.

Yours faithfully

For Gujarat Energy Development Agency

CC To	:	*1. The Chief Engineer PGVCL*	*With a request for ascertaining the technical feasibility, signing of the connectivity agreement and installation of the bi-directional meter.*
		2. The Chief Electrical Inspector	*With a request to approve the SLD and grant charging permission for the eligible system capacity.*
		3.Simms Engineering Pvt Ltd.	*For necessary action, and installation of the solar system upon technical feasibility done by the DISCOM*

DISCLAIMER: The PV Installer/ Vendor/ EPC Company is selected by the Applicant/Consumer as per his choice, GEDA owning no responsibility of the EPCs for his technical, financial strength quality integrity, etc. and the financial transactions with PV Installer.

(This is Computer generated letter and does not require any signature)

CLEAN AND GREEN CAMPUS

Ann. 3: Proforma for reporting AKAM events by Ministries

Particulars	Details
Name of Department/ Agency	Education Department Commissionerate of Higher Education, Gandhinagar **(Dr. V. R. Godhaniya College of Arts, Commerce, Home Science & IT for Girls, Porbandar,Gujarat, NSS Department)**
Name of Ministry	Education
Name of event	Special Camp (At- Khambhodar, Porbandar)
Start Date of event	02-01-2020
End date of event	08-01-2020
Theme of event	☑ Freedom Struggle ☑ Ideas@75 ☑ Achievements@75 ☑ Actions@75 ☑ Resolve@75
Description of event (150 word limit)	**About Khambhodar** According to Census 2011 information the location code or village code of Khambhodar village is 514188. Khambhodar village is located in Porbandar Tehsil of Porbandar district in Gujarat, India. It is situated 18km away from Porbandar, which is both district & sub-district headquarter of Khambhodar village. As per 2009 stats, Khambhodar village is also a gram panchayat. The total geographical area of village is 1373.78 hectares. Khambhodar has a total population of 2,617 peoples. There are about 547 houses in Khambhodar village. Porbandar is nearest town to Khambhodar which is approximately 18km away. **Special Camp Activities :** 1.) Environmental awareness Programme 2.) Clean India Healthy India Mission 3.) Bethi Bachavo Beti Padhavo Rally 4.) Govt. Scheme of Agricultural 5.) General Medical Camp 6.) Dental Medical Camp 7.) Training of Yoga & Meditation 8.) Acupressure Camp 9.) Expert Lecture on Women Empowerment by NItaben Vora – Tustee of Saheli Trust, Bagvadar 10.) distributed approximately 300 special kits among the poor miners and their family members. – Indian Red Cross Society(NGO), Village - Bhod
Nature of participation in event	☑ Jan Bhagidari (open to public) ☐ Only participation from within department/Ministry (no public)
Expected number of participants in event	100 NSS Volunteers 2 NSS Programme Officers 400 School Students Village Peoples

VIP attendees (if any)	Trustees, Principal, Teachers, Sarpanch, up-sarpanch,	
Associate partners	State/UT #1:	Prof. Varshaben B. Joshi - NSS Programme Officers (UT-1)
	State/UT #2:	Dr. Bhavna R. Keshwala - NSS Programme Officers (UT-2)
	State/UT #3:	
Mode of event	☐ Online event (webinar, virtual event) ☑ Offline event (in-person participation) ☐ Hybrid event (mix of online and offline modes)	
Moe of advertisement of event	☑Website ☑Social Media ☑Newspapers ☑Television media ☑Other mode	
Nodal officer	Name:	Dr. Ketan Shah
	Designation:	In-charge Principal (Dr. V. R. Godhaniya College of Arts, Commerce, Home science & IT for Girls, Porbandar, NSS Department)
	Email ID:	Shahketan125@gmail.com
	Phone number:	+91 8320572135

*** Note : It is requested to provide 4 photos of each event.**

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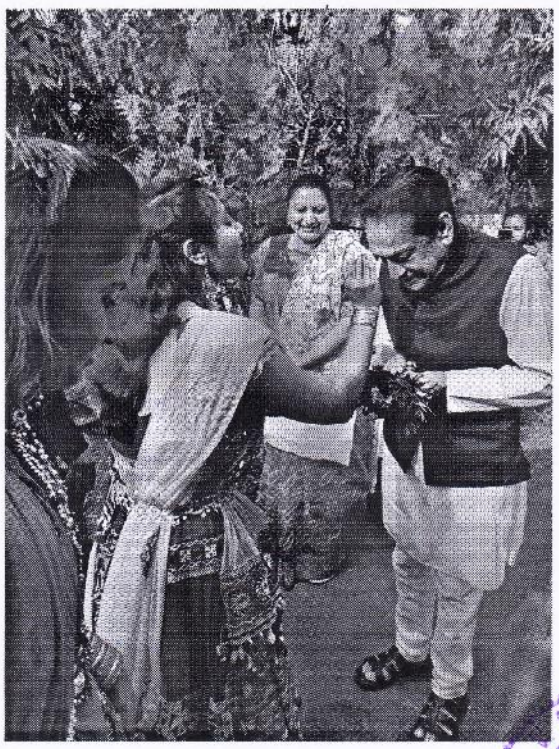
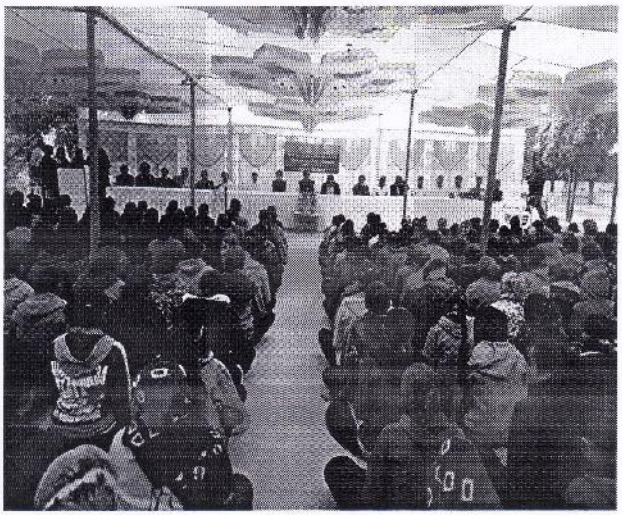
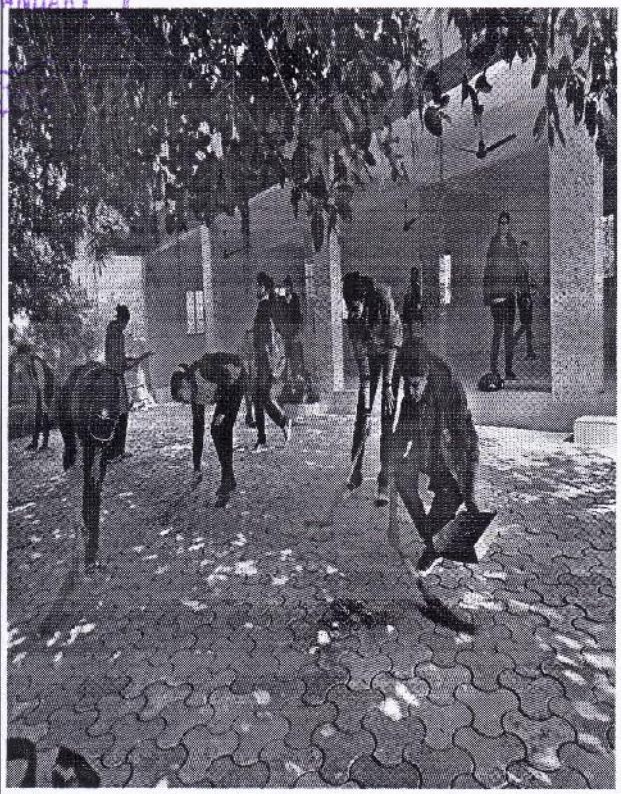
મહિલા કોલેજ, પોરબંદર

Event Photographs :







Ann. 3: Proforma for reporting AKAM events by Ministries

Particulars	Details
Name of Department/ Agency	Education Department Commissionerate of Higher Education, Gandhinagar **(Dr. V. R. Godhaniya College of Arts, Commerce, Home Science & IT for Girls, Porbandar,Gujarat, NSS Department)**
Name of Ministry	Education
Name of event	Regular Activities (At- Advana, Porbandar)
Start Date of event	15-03-2020
End date of event	21-03-2020
Theme of event	☑ Freedom Struggle ☑ Ideas@75 ☑ Achievements@75 ☑ Actions@75 ☑ Resolve@75
Description of event (150 word limit)	**About Advana** Advana is a Village in Porbandar Taluka in Porbandar District of Gujarat State, India. It is located 34 KM towards North from District head quarters Porbandar. 22 KM from . 405 KM from State capital Gandhinagar It is near to arabian sea. There is a chance of humidity in the weather. **Advana 2011 Census Details:-** Advana Local Language is Gujarati · Hindi · English. Advana Village Total population is 5736 and number of houses are 1234. Female Population is 49.3%. Village literacy rate is 64.1% and the Female Literacy rate is 28.5%. Population **Regular Activities :** 1.) Fit Indian 2.) Clean India Healthy India Mission 3.) Govt. Scheme of Agricultural 4.) Environmental awareness Programme 5.) Natural Farming
Nature of participation in event	☑ Jan Bhagidari (open to public) ☐ Only participation from within department/Ministry (no public)
Expected number of participants in event	50 NSS Volunteers 2 NSS Programme Officers 700 School Students Village Peoples
VIP attendees (if any)	Trustees, Principal, Teachers, Sarpanch, up-sarpanch,
Associate partners	State/UT #1: Prof. Varshaben B. Joshi - NSS Programme Officers (UT-1) State/UT #2: Dr. Bhavana R. Keshwala - NSS Programme Officers (UT-2) State/UT #3:
Mode of event	☐ Online event (webinar, virtual event) ☑ Offline event (in-person participation) ☐ Hybrid event (mix of online and offline modes)

Moe of advertisement of event	☑Website ☑Social Media ☑Newspapers ☑Television media ☑Other mode	
Nodal officer	Name:	Dr. Ketan Shah
	Designation:	In-charge Principal (Dr. V. R. Godhaniya College of Arts, Commerce, Home science & IT for Girls, Porbandar, NSS Department)
	Email ID:	Shahketan125@gmail.com
	Phone number:	+91 8320572135

*** Note : It is requested to provide 4 photos of each event.**

DR. V. R. GODHANIYA GIRLS COLLEGE POPBANDAR

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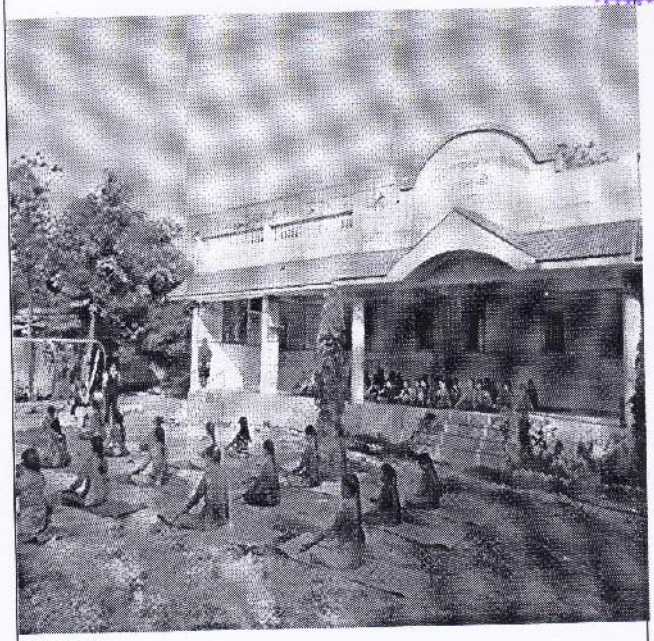
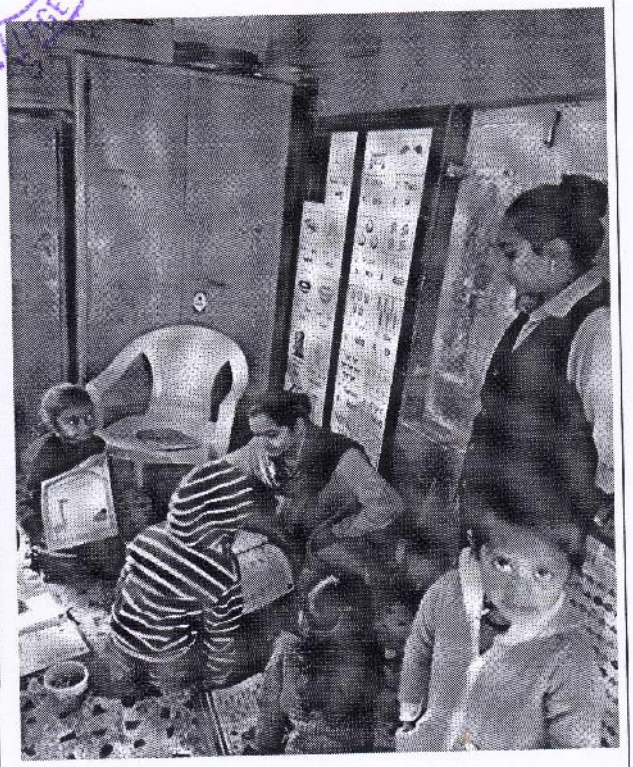
Event Photographs :





Ann. 3: Proforma for reporting AKAM events by Ministries

Particulars	Details	
Name of Department/ Agency	Education Department Commissionerate of Higher Education, Gandhinagar **(Dr. V. R. Godhaniya College of Arts, Commerce, Home Science & IT for Girls, Porbandar,Gujarat, NSS Department)**	
Name of Ministry	Education	
Name of event	Regular Activities (At- Gosa, Porbandar)	
Start Date of event	24-06-2021	
End date of event	30-06-2021	
Theme of event	☑Freedom Struggle ☑Ideas@75 ☑Achievements@75 ☑Actions@75 ☑Resolve@75	
Description of event (150 word limit)	Gosa is a Village in PorbandarTaluka in Porbandar District of Gujarat State, India. It is located 26 KM towards South from District head quartersPorbandar. 35 KM from . 415 KM from State capital Gandhinagar Gosa Pin code is 360576 and postal head office is Porbandar Birla Sagar . Chikasa (6 KM) , Navi Bandar (7 KM) , Rajpar (8 KM) , Bhad (11 KM) , Padardi (13 KM) are the nearby Villages to Gosa. Gosa is surrounded by KutiyanaTaluka towards East ,PorbandarTaluka towards North , ManavadarTaluka towards East , MangrolTaluka towards East . Porbandar ,Ranavav , Manavadar , Keshod are the near by Cities to Gosa. It is near to arabian sea. There is a chance of humidity in the weather. Gosa 2011 Census Details Gosa Local Language is Gujarati · Hindi · English. Gosa Village Total population is 2250 and number of houses are 483. Female Population is 50.1%. Village literacy rate is 68.3% and the Female Literacy rate is 29.3%. Population **Regular Activities :** 1.) Fit Indian 2.) Clean India Healthy India Mission 3.) Govt. Scheme of Agricultural 4.) Environmental awareness Programme 5.) Natural Farming	
Nature of participation in event	☑Jan Bhagidari (open to public) ☐Only participation from within department/Ministry (no public)	
Expected number of participants in event	20 NSS Volunteers 2 NSS Programme Officers 500 School Students Village Peoples	
VIP attendees (if any)	Trustees, Principal, Teachers, Sarpanch, up-sarpanch,	
Associate partners	State/UT #1:	Prof. Varshaben B. Joshi - NSS Programme Officers (UT-1)
	State/UT #2:	Dr.Bhavana R. Keshwala - NSS Programme Officers (UT-2)
	State/UT #3:	

Mode of event	☐ Online event (webinar, virtual event) ☑ Offline event (in-person participation) ☐ Hybrid event (mix of online and offline modes)	
Moe of advertisement of event	☑Website ☑Social Media ☑Newspapers ☑Television media ☑Other mode	
Nodal officer	Name:	Dr.Ketan Shah
	Designation:	In-charge Principal (Dr. V. R. Godhaniya College of Arts, Commerce, Home science & IT for Girls, Porbandar, NSS Department)
	Email ID:	Shahketan125@gmail.com
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*** Note : It is requested to provide 4 photos of each event.**

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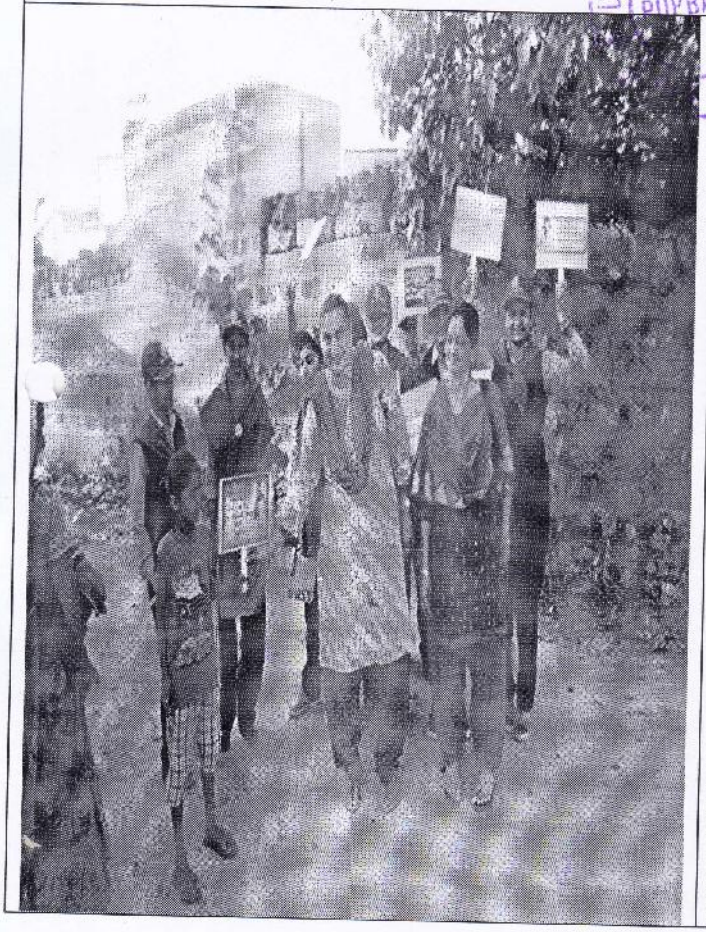
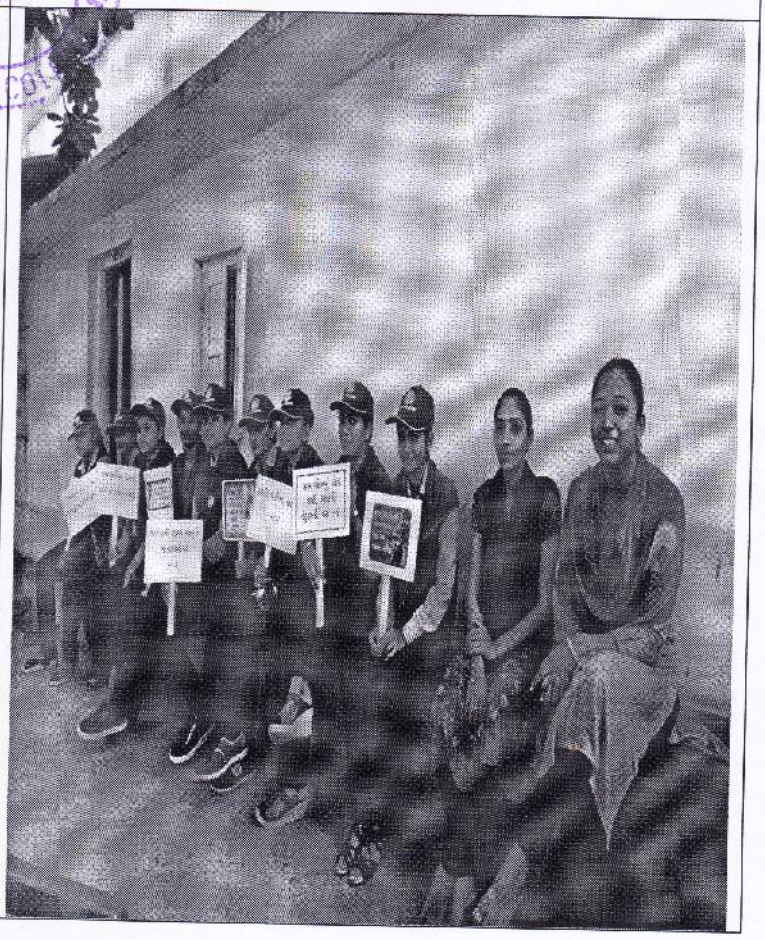
Event Photographs :





Ann. 3: Proforma for reporting AKAM events by Ministries

Particulars	Details	
Name of Department/ Agency	Education Department Commissionerate of Higher Education, Gandhinagar **(Dr. V. R. Godhaniya College of Arts, Commerce, Home Science & IT for Girls, Porbandar,Gujarat, NSS Department)**	
Name of Ministry	Education	
Name of event	Regular Activities (At-Mocha, Porbandar)	
Start Date of event	02-01-2021	
End date of event	08-01-2021	
Theme of event	☑Freedom Struggle ☑Ideas@75 ☑Achievements@75 ☑Actions@75 ☑Resolve@75	
Description of event (150 word limit)	Mocha is a Village in Porbandar Taluka in Porbandar District of Gujarat State, India. It is located 12 KM towards North from District head quarters Porbandar. 411 KM from State capital Gandhinagar Mocha Pin code is 362230 and postal head office is Madhavpur . Mocha is surrounded by Ranavav Taluka towards East ,Bhanvad Taluka towards North , Kutiyana Taluka towards East , Kalyanpur Taluka towards North . Porbandar ,Ranavav , Khambhalia , Manavadar are the near by Cities to Mocha. It is near to arabian sea. There is a chance of humidity in the weather. Mocha 2011 Census Details Mocha Local Language is Gujarati · Hindi · English. Mocha Village Total population is 1016 and number of houses are 210. Female Population is 47.8%. Village literacy rate is 61.8% and the Female Literacy rate is 25.1%. Population **Regular Activities :** 1.) Fit Indian 2.) Clean India Healthy India Mission 3.) Govt. Scheme of Agricultural 4.) Environmental awareness Programme 5.) Natural Farming	
Nature of participation in event	☑Jan Bhagidari (open to public) ☐Only participation from within department/Ministry (no public)	
Expected number of participants in event	10NSS Volunteers 2 NSS Programme Officers 700 School Students Village Peoples	
VIP attendees (if any)	Trustees, Principal, Teachers, Sarpanch, up-sarpanch,	
Associate partners	State/UT #1:	Prof. Varshaben B. Joshi - NSS Programme Officers (UT-1)
	State/UT #2:	Dr.Bhavana R. Keshwala - NSS Programme Officers (UT-2)
	State/UT #3:	

Mode of event	☐ Online event (webinar, virtual event) ☑ Offline event (in-person participation) ☐ Hybrid event (mix of online and offline modes)	
Moe of advertisement of event	☑Website ☑Social Media ☑Newspapers ☑Television media ☑Other mode	
Nodal officer	Name:	Dr.Ketan Shah
	Designation:	In-charge Principal (Dr. V. R. Godhaniya College of Arts, Commerce, Home science & IT for Girls, Porbandar, NSS Department)
	Email ID:	Shahketan125@gmail.com
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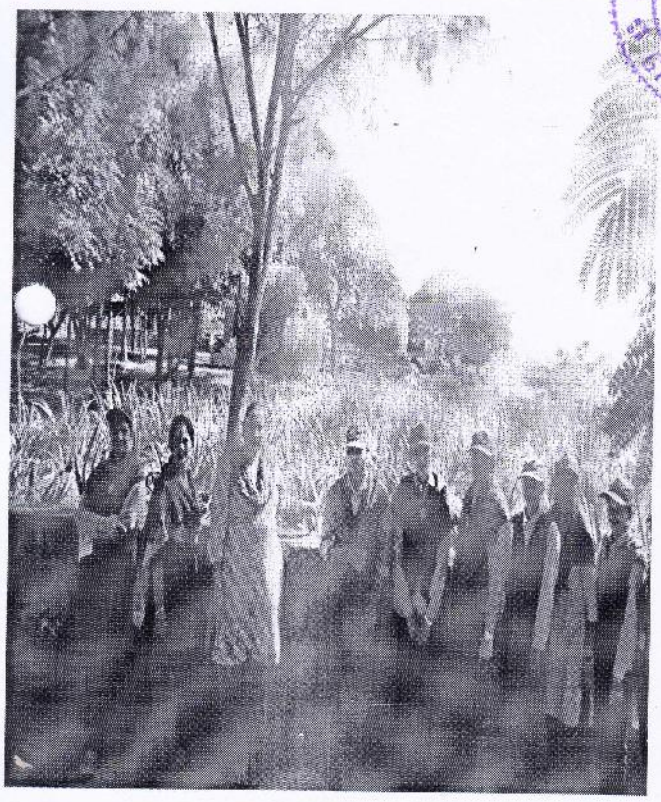
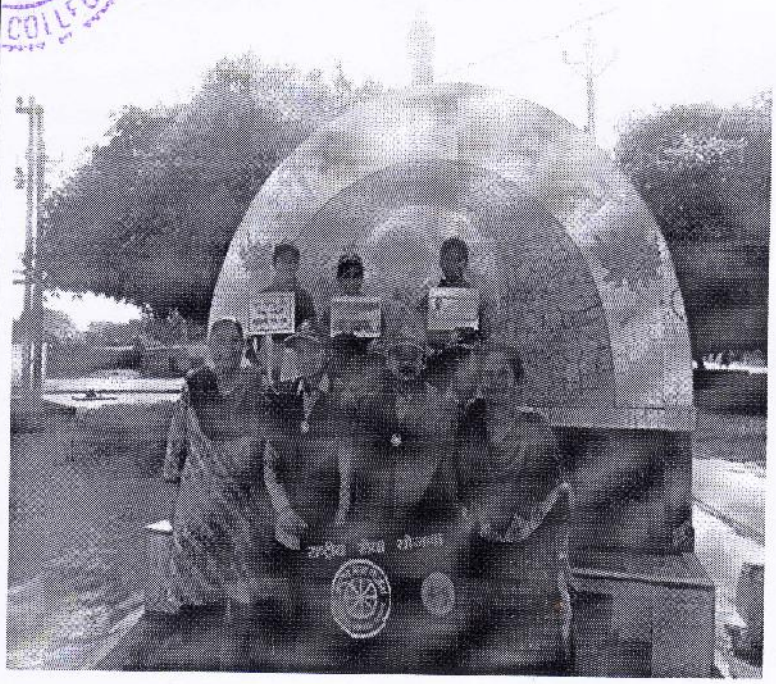
મહિલા કોલેજ, પોરબંદર

Event Photographs :





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Particulars	Details	
Name of Department/ Agency	Education Department Commissionerate of Higher Education, Gandhinagar **(Dr. V. R. Godhaniya College of Arts, Commerce, Home Science & IT for Girls, Porbandar,Gujarat, NSS Department)**	
Name of Ministry	Education	
Name of event	Special Camp (At-Kuchhadi, Porbandar)	
Start Date of event	24-12-2021	
End date of event	30-12-2021	
Theme of event	☑Freedom Struggle ☑Ideas@75 ☑Achievements@75 ☑Actions@75 ☑Resolve@75	
Description of event (150 word limit)	Kuchhdi is a Village in Porbandar Taluka in Porbandar District of Gujarat State, India. It is located 12 KM towards North from District head quarters Porbandar. 7 KM from . 419 KM from State capital Gandhinagar Kuchhdi Pin code is 360579 and postal head office is Bokhira . Simani (2 KM) , Rinavada (3 KM) , Degam (5 KM) , Kantela (5 KM) , Palkhada (6 KM) are the nearby Villages to Kuchhdi. Kuchhdi is surrounded by Ranavav Taluka towards East , Bhanvad Taluka towards North , Kalyanpur Taluka towards North , Kutiyana Taluka towards East . Porbandar , Ranavav , Khambhalia , Manavadar are the near by Cities to Kuchhdi. It is near to arabian sea. There is a chance of humidity in the weather. Kuchhdi 2011 Census Details Kuchhdi Local Language is Gujarati · Hindi · English. Kuchhdi Village Total population is 4348 and number of houses are 933. Female Population is 49.5%. Village literacy rate is 65.5% and the Female Literacy rate is 29.4%.	
Nature of participation in event	☑Jan Bhagidari (open to public) ☐Only participation from within department/Ministry (no public)	
Expected number of participants in event	100 NSS Volunteers 2 NSS Programme Officers 800 School Students Village Peoples	
VIP attendees (if any)	Trustees, Principal, Teachers, Sarpanch, up-sarpanch,	
Associate partners	State/UT #1:	Prof. Varshaben B. Joshi - NSS Programme Officers (UT-1)
	State/UT #2:	Dr.Bhavana R. Keshwala - NSS Programme Officers (UT-2)
	State/UT #3:	
Mode of event	☐ Online event (webinar, virtual event) ☑ Offline event (in-person participation) ☐ Hybrid event (mix of online and offline modes)	

Moe of advertisement of event	☑Website ☑Social Media ☑Newspapers ☑Television media ☑Other mode	
Nodal officer	Name:	Dr.Ketan Shah
	Designation:	In-charge Principal (Dr. V. R. Godhaniya College of Arts, Commerce, Home science & IT for Girls, Porbandar, NSS Department)
	Email ID:	Shahketan125@gmail.com
	Phone number:	+91 8320572135

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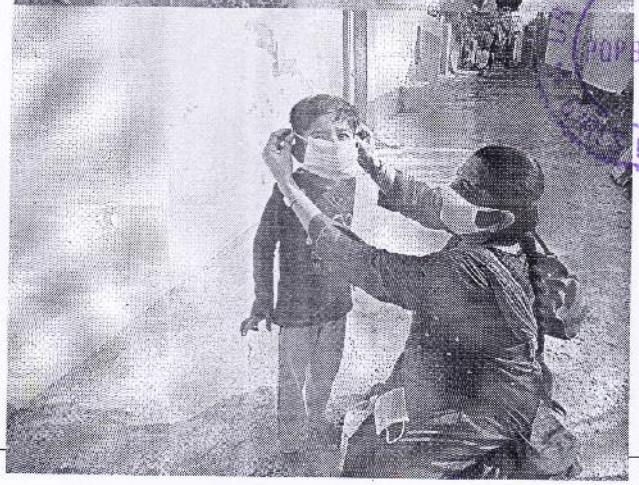
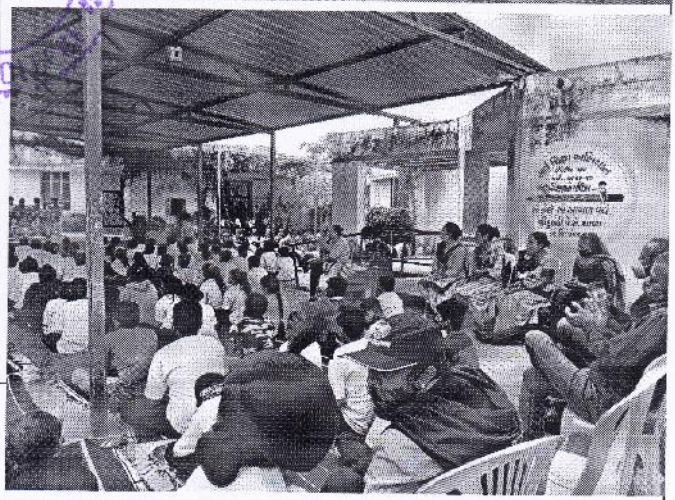
મહિલા કોલેજ, પોરબંદર

Event Photographs :





150th Birth Anniversary of Mahatma Gandhi Swachchhata abhiyan and Shapath Grahan

Tree Plantation at College by Cadets

Celebration of International Forest Day

STUDENTS TAKING PLEDGE

CELEBRATION OF WORLD SPARROW DAY

ગોઢાણીયા મહિલા કોલેજમાં વિશ્વ ચકલી દિવસ ઉજવાયો

બર્ડ કન્ઝર્વેશન સોસાયટી દ્વારા ચકલીઘરનું થયું વિતરણ

આજકાલ પ્રતિનિધિ-પોરબંદર

પોરબંદરની ગોઢાણીયા કોલેજમાં વિશ્વ ચકલી દિવસની ઉજવણી કરવામાં આવી હતી.વિશ્વ ચકલી દિવસની બર્ડ કન્ઝર્વેશન સોસાયટી તથા ડો. વિરમભાઈ ગોઢાણીયા કોલેજના સંયુક્ત ઉપક્રમે ઉજવણી કાર્યક્રમમાં પ્રમુખ ભરતભાઈ રૂઘાણીના માર્ગદર્શન હેઠળ ઉમંગભેર ઉજવણી કરવામાં આવી જેમાં ૧૫૦ દિકરીઓએ ભાગ લીધો હતો ઈન્ચાર્જ પ્રિન્સિપાલ ડો. કેતનભાઈ શાહે પ્રાસંગિક પ્રવચન આપ્યું હતું. ભરતભાઈ રૂઘાણી એ ચકલી દિવસ શા માટે ઉજવાય છે તેનું ક્રમ જતન કરવું જોઈએ વગેરે બાબતો વિસ્તાર પૂર્વક સમજાવી જણાવેલ કે અમારી સંસ્થાની પરમ્પરા છે કે ચકલીઘર પ્રતીકરૂપે જ વિતરણ કરવાનાં બાકી ઘરે ઘરે અલગ અલગ વિસ્તારોમાં ફરી વિના મૂલ્યે ચકલીઘર લગાડી તેનાં વિશે લોકોને માહિતગાર કરવાનાં અને ચકલીની ઘટતી સંખ્યા વધારવામાં ની સમજ આપી જણાવેલ કે દરેક નાગરિકોએ સહયોગ આપવો જરૂરી છે, તેમજ અમારી બર્ડ કન્ઝર્વેશન સોસાયટી દ્વારા માત્ર પોરબંદર જ નહીં પણ આજુબાજુનાં ગામડાઓ શહેરોમાં જઈ ચકલીઘર વિના મૂલ્યે લગાડી આપવામાં આવે છે, અત્યાર સુધીમાં અમારી સંસ્થા એ બગવદર મોઢવાળા, મિયાણી,ખાંભોદર, કુતિયાણા, દેવડા,ઓડદર, ગોસાદરપર, વનાણા, ભોદ,ઘરમપુર, આદિત્યાણા, દેગામ વિગેરે ગામોમાં સભ્યોએ જાતે જઈ ચકલીઘર લગાડ્યા છે તેમ જણાવી ચકલી ની સુંદર રચના,'તારો વૈભવ રંગ મહેલ ને નોકર ચાકર નું ઘાડુ મારૂ આંગણ ચકલી આવે તે મારું રજવાડું' સંભળાવી ઉપસ્થિત દરેકને ચકલી બચાવ અભિયાનમાં જોડાવા અપીલ કરેલ ત્યારબાદ દિકરીઓ ને ચકલીઘરનું વિતરણ કરવામાં આવ્યું આ કાર્યક્રમમાં કોમર્સ ડીપાર્ટમેન્ટના હેડ આર. કે. મોઢવાડીયા,ડો ભાવનાબેન મશરૂ, એન.એસ.એસ.ના પ્રોગ્રામ ઓફીસર ભાવનાબેન કેશવાલા ખાસ ઉપસ્થિત રહ્યા હતા. ડો. સ્મિતાબેન આચાર્ય એ પણ ખાસ જહેમત ઉઠાવી હતી. ભારતીબેન વ્યાસે નાનકડી વાર્તા દ્વારા આ દિવસનુ મહત્વ સમજાવ્યું હતું કાર્યક્રમમાને સફળ બનાવવામા દિવ્યાબેન રૂઘાણી, સુધાબેન શાહ, ચાંદનીબેન, દર્શનાબેન તથા ધવલભાઈ એ જહેમત ઉઠાવી હતી. આ દિવસે ચિત્ર સ્પર્ધાનું આયોજન કરવામાં આવ્યું હતું, વિજેતાઓ ૧. સોનલ ચંદ્રુભાઈ, ૨. સલેટ કોમલ, ૩. કાણકિયા સોનિકા ગોવિંદભાઈ સર્ટિફિકેટ આપી પુરસ્કૃત કરવામાં આવ્યા હતાં.

પોરબંદરની ગોઢાણીયા કોલેજમાં વિશ્વ ચકલી દિવસની ઉજવણી કરવામાં આવી ત્યારની તસ્વીર.(તસ્વીર : જીજ્ઞેશ પોપટ)

Re-Accredited Grade 'B++' (CGPA:2.84) by NAAC (2017-2022) and Grade "A" by KCG (CGPA:3.02)

Dr. Virambhai Rajabhai Godhaniya
College of Arts, Commerce, Home Science and
Information Technology for Girls, Porbandar
Managed by Shri Maldevji Odedra Smarak Trust

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To,
Agricultural Research Officer,
Shri Rambhai Odedara,
Agricultural Science Centre,
Khapat,
Porbandar

Subject : Collaboration With Agricultural Science Centre, Khapat, Porbandar

Respected sir,

We Dr. V. R. Godhania Girls College, Porbandar imparting higher education since last 31 years. The college has courses like B.A., B.Com. B.Sc. Home Science which includes subjects like Commerce, Banking, Economics, Rural Economics, Agro economics, Food & Nutrition, Gardening, Information Technology etc. Total of 1600 hundred girls students are enrolled in the said course.

To give them in-depth subject knowledge & enhance their practical knowledge, We wish to have collaboration with Agricultural science centre (Khapat) in order to make students practically aware & provide more knowledge in agricultural field. Kindly give permission to visit your centre & lets allow your experts in various departments to guide us.

Please inform us about your views as soon as possible.

Thanking You...

PRINCIPAL
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