

Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

CRITERION-III

Metric: 3.4.1

Institution Outcomes of Extension activities in the neighbourhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.



Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Service & Awareness Activities

- Participation in covid vaccination camps organised by parent organisation, the vaccines were received from Bajaj foundation.
- During Covid-19, the district collector appointed BIT as nodal centre for coordinating the medical facilities in the hospitals of Wardha district.
- Supervision of Oxygen Tank at Civil Hospital, Wardha.
- Road safety awareness program in collaboration with RTO.
- AIDS awareness program.
- Yoga awareness to understand importance of maintaining physical and mental health.



Shiksha Mandal's

Bajaj Institute of Technology

(Approved by AICTE, and affiliated to Dr. Babasaheb Ambedkar Technical University, Lonere)

Arvi Road, Pipri – Wardha - 442001

Post Box. No. 25, Phone / Fax (07152) 254770, 255770

Web Site: www.bitwardha.ac.in, Email : bit@bit.shikshamandal.org



Vaccination Drive - II

Shiksha Mandal Trust organized COVID vaccination camp. The vaccines were received from an NGO Bajaj Foundation. NSS wing of Bajaj Institute of Technology, Wardha coordinated this Vaccination Drive at Leprosy Foundation, Wardha.

The camp was organized from 15th September to 22nd September 2021. During this drive around 403 Students and 53 staff members of the institution were vaccinated successfully. Photographs of the drive are as follows:





A handwritten signature in black ink, appearing to read 'Vikas Ravekar'.

Prof. Vikas Ravekar
NSS Program Officer

PROGRAMME OFFICER
National Service Scheme (NSS)
Bej. Institute of Technology,
WARDHA



Department of Computer Engineering
Activity Report

Shiksha Mandal's BIT, Wardha	Extension Activity with Government	Page	1 of 1
		Prepared on	30/06/2021
Title	Project for "Wardha Collectorate -Covid 19 War Room"		
Date :	16/05/2021 to 20/06/2021	Duration	1 month
Faculty In-charge:	Prof. Sheetal Kale		

With the increase in covid cases in the district and limited resource availability for treatment, utilization of the resources appropriately was of paramount importance. Keeping this as the focus Wardha collectorate decided to setup a fully functional "Covid-19 war room".

Experts from all the areas were invited to contribute for the project. Chairman - Shiksha Mandal and Principal BIT, had deployed the undersigned for this project, as an IT expert to develop the technical solution for the same. Mr. Amol Jumde and Mrs. Urvasi Pote, Assistant professor in Computer Engineering Department, BIT, supported in this activity.

The objective of this project was:

- To protect the healthcare system of the district from meltdown due to overload of incoming demand due to Covid-19 outbreak.

For this the primary strategies applied were:

- Load balancing of human patient inflow into the overall healthcare capacity with usage of Integrated triage, Bed allocation and Patient shifting to ensure that only critical and worthy patients are allocated the scarce resources.
- Real time update and monitoring of the resources like beds, oxygen cylinder etc available.
- Achieve Ward level decentralization for better local control
- Incremental deployment against a big bang approach

The Primary challenge faced was lack of integrated systems for real-time information to manage patient inflow against the total capacity of the healthcare system at panchayat/district level.

An integrated network with these 5 critical subsystems that were necessary for a district collector to create a fully functional war room was engineered. All these subsystems were critical to provide the most vital data for district administration for strategic and tactical decision-making during pandemic.

Document No	Prepared on	Revised on	Prepared By	Approved By
BITACAD/Comp/Ext. Activity/21-22	16/04/21	/ /21	MDP	Dr. N.M. Kanhe Principal



Shiksha Mandal's
Bajaj Institute of Technology, Wardha
(Affiliated to DBATU, Lonere, Raigad, Maharashtra)

1. **A Healthcare Network** that connects all physical assets of the healthcare system to the human-assets in the system.
2. **A Telemedicine Network** for tele-triaging and keeping track of calls and patient records and giving confidence to the public to stay at home unless their condition worsens.
3. **First Line Treatment Center Network** at large wards for patients with mild symptoms to visit for treatment and stay for observation.
4. **Public Data Dashboards** for creating public trust by sharing data on case-loads, patients treated and shifted thereby increasing confidence of people.
5. **A Knowledge Network** hosted by WHO experts who helped create the decentralized strategy to educate all healthcare workers and volunteers on this emergency Covid19 medical response action plan.

A Covid war Room had all these subsystems with digital visual data dashboards monitored by the operating field staff who was well trained to operate the individual sub systems.

Insights from this project:

1. Everyone worked towards a common Goal oriented with clear strategy
2. Single leader appointment with clear chain of command and Specialist members
3. Directly connected to field hospitals for near real time data
4. Rapid decentralization for better control and quick updates.
5. Focus on fast execution
6. Full data transparency with the public

The final solution developed was found very useful during pandemic and will be a good resource for all the district administration for such critical situations.


Prepared By

(Faculty In-charge)

Professor and Head of the department
Computer Engineering Department, BIT

HEAD

Department of Computer Engineering
Bajaj Institute of Technology, WARDHA

Submitted to Principal office for information

Document No	Prepared on	Revised on	Prepared By	Approved By
BITACAD/Comp/Ext Activity/21-22	16/04/21	/ /21	MDP	Dr. N.M. Kanhe Principal



जिल्हाधिकारी कार्यालय, वर्धा
(जिल्हा आपत्ती व्यवस्थापन प्राधिकरण)
महात्मा गांधी पुस्तकालय जवळ, सिव्हील लाईन, वर्धा

Covid-19
Urgent

दूरध्वनी क्रमांक (07152) 243446 /240872
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क्र. जिआव्यअ/कोरोना विभाग/कावि- 1164/२०२१

दिनांक - 18 मे, २०२१

प्रति,

अध्यक्ष,
शिक्षा मंडल,
BIT, वर्धा.

विषय - प्रो.श्रीमती शितल काळे, (बजाज इन्सिस्टिट्यूट ऑफ टेक्नॉलॉजी, वर्धा) यांची सेवा अधिग्रहीत करण्याबाबत.
संदर्भ -

१. आपत्ती व्यवस्थापन अधिनियम २००५.
२. महाराष्ट्र पालीस अधिनियम, १९५१.
३. भारतीय साधरोग नियंत्रण अधिनियम, १८९७.

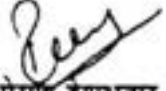
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सद्यस्थितीत वर्धा जिल्ह्यामध्ये कोरोना रुग्ण संख्येत मोठ्या प्रमाणात वाढ होत असल्याचे दिसून येत आहे. दंडात्मक कारवाई, कोरोना बाधित रुग्णांना बेड उपलब्ध करणे, ऑक्सिजन व रेमडिसीविर उपलब्ध करणे, गृहविलगीकरण, संस्थात्मक विलगीकरण, विविध कॉल सेंटर मधिल कर्मचारी नियुक्त्या इत्यादी विविध स्वरूपाची कामे जिल्हा आपत्ती व्यवस्थापन कक्षामार्फत केली जातात. कार्यालयीन व शासकीय सुट्टीचे दिवशी शासन स्तरावरून व वरीष्ठ कार्यालयाकडून कोरोना संबंधाने आदेश निर्गमित केले जातात. तसेच तातडीच्या आढावा सभा, VC व बैठका घेतल्या जातात. जिल्हा आपत्ती व्यवस्थापन कक्षामध्ये एकाच वेळी विविध स्तरावरून माहितीचे संकलन, वरीष्ठ कार्यालयास व सभांकरीता माहिती सादरीकरण, शासना कडून प्राप्त अधिसूचनां नुसार व आपत्ती व्यवस्थापनाच्या दृष्टिने वेगवेगळे आदेश तयार करणे व निर्गमित करणे अशी विविध स्वरूपाची कामे करण्यात येतात. काही तातडीचे काम ऑनलाईन पध्दतीने सुध्दा तात्काळ करणे आवश्यक असते. या सर्व कामांमध्ये सुसुत्रता यावी तसेच, योग्य सनियंत्रण रहावे यास्तव "वर्धा कलेक्टरेट कोविड-१९ वॉर रूम" करण्यात आलेली असून, सदर वॉर रूम करीता संबंधित क्षेत्रातील तज्ञ व्यक्ती ची आवश्यक आहे.

त्याअनुषंगाने, जिल्हाधिकारी तथा अध्यक्ष, जिल्हा आपत्ती व्यवस्थापन प्राधिकरण वर्धा यांना महाराष्ट्र कोवीड-19 उपाययोजना नियम 2020 चे नियम 10 नुसार प्रदान करण्यात आलेल्या अधिकारान्वये, प्रो. श्रीमती शितल काळे, (बजाज इन्सिस्टिट्यूट ऑफ टेक्नॉलॉजी, वर्धा) यांची सेवा उक्त कर्तव्यार्थ, वर्धा कलेक्टरेट कोविड-१९ वॉर रूम करीता अधिग्रहीत करण्यात आहे.


प्रो. श्रीमती शितल काळे, (बजाज इन्सॉटिट्यूड ऑफ टेक्नॉलॉजी, वर्धा) यांनी उक्त प्रमाणे सोपविण्यात आलेली जबाबदारी तसेच, वॉर रुम चे नियोजनापासून ते प्रत्यक्ष अंमलबजावणी करणे बाबतची संपूर्ण जबाबदारी न चुकता पार पाडावी.




(प्रेरणा देशभूतार, I.A.S)
जिल्हाधिकारी तथा अध्यक्ष
जिल्हा आपत्ती व्यवस्थापन प्राधिकरण,
जिल्हाधिकारी कार्यालय, वर्धा.

प्रतिलिपि -

१. मा. विभागीय आयुक्त, नागपुर विभाग, नागपुर यांना माहितीस सविनय सादर.
२. मुख्य कार्यकारी अधिकारी, जि.प. वर्धा यांना माहितीस अग्रेषित.
३. जिल्हा शल्य चिकित्सक, वर्धा.
४. जिल्हा आरोग्य अधिकारी, जि.प. वर्धा.
५. उपविभागीय अधिकारी, वर्धा / हिंगणघाट / आर्वी.
६. प्रो. श्रीमती शितल काळे, (बजाज इन्सॉटिट्यूड ऑफ टेक्नॉलॉजी, वर्धा) यांना माहिती तथा उचित कार्यवाहीस. आपणास सोपविण्यात आलेली जबाबदारी पुर्ण करण्याबाबत चे नियोजन या कार्यालयास तात्काळ सादर करावे.


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क्र. जिआव्यअ/कोरोना विषाणू/कावि- 1835/२०२१

दिनांक - 26 ऑगस्ट, २०२१.

- प्रमाणपत्र -

प्रमाणित करण्यात येते की, खालील अधिकारी/कर्मचारी यांनी, काविड-19 कालावधीत वर्धा जिल्ह्यातील सर्व DCH/DCHC (MGIMS सेवाग्राम, AVBRH सावंगी, जिल्हा सामान्य रुग्णालय, वर्धा सामान्य रुग्णालय, आर्वी व हिंगणघाट) या कोविड रुग्णालयातील ऑक्सीजन स्टोरेज टँक पासून ऑक्सीजन पुरवठा करणारे गॅस वाहिनी सुस्थितीत असल्याची व ऑक्सीजन पुरवठा सुरळीत होत असल्याबाबत दैनंदिन तपासणी करणे तसेच Fire Prevention & Rescue Plan बाबत आवश्यक तपासणी करण्याचे काम यशस्वीपणे पूर्ण केल्याबाबत या कार्यालयामार्फत त्यांना प्रमाणपत्र देण्यात येत आहे.

त्यांना दिनांक 25 जून, 2021 रोजी या कार्यालयाचे आदेशान्वये कार्यमुक्त करण्यात आले.

अ.क्र.	अधिकारी/कर्मचारी यांचे नांव	कार्यालयाचे नांव	कालावधी
१.	श्री. मोहन पाचखेडे.	बजाज इन्स्टिट्यूट ऑफ	२३ एप्रिल, २०२१ ते
२.	श्री. गजानन खंडारे.	टेक्नोलॉजी, पिपरी (मेघे), वर्धा.	२५ जून, २०२१



प्रति,

प्राचार्य, बजाज इन्स्टिट्यूट ऑफ टेक्नोलॉजी, पिपरी (मेघे), वर्धा.

(नितान पाटिल)

प्र.नि.ऊ.जी.तथा मु.का.अ.
जिल्हा आपत्ती व्यवस्थापन प्राधिकरण,
जिल्हाधिकारी कार्यालय, वर्धा.

Attested

30.8.21

PRINCIPAL
Bajaj Institute of Technology,
PIPRI, Wardha



Shiksha Mandal's

Bajaj Institute of Technology

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bit@bit.shikshamandal.org



Expert lecture on Road Safety

The National Service Scheme (N.S.S) unit of Bajaj Institute of Technology, Wardha organized an Expert lecture on Road Safety on **11th May 2023** for making students aware of rules and regulations and the importance of Road Safety.

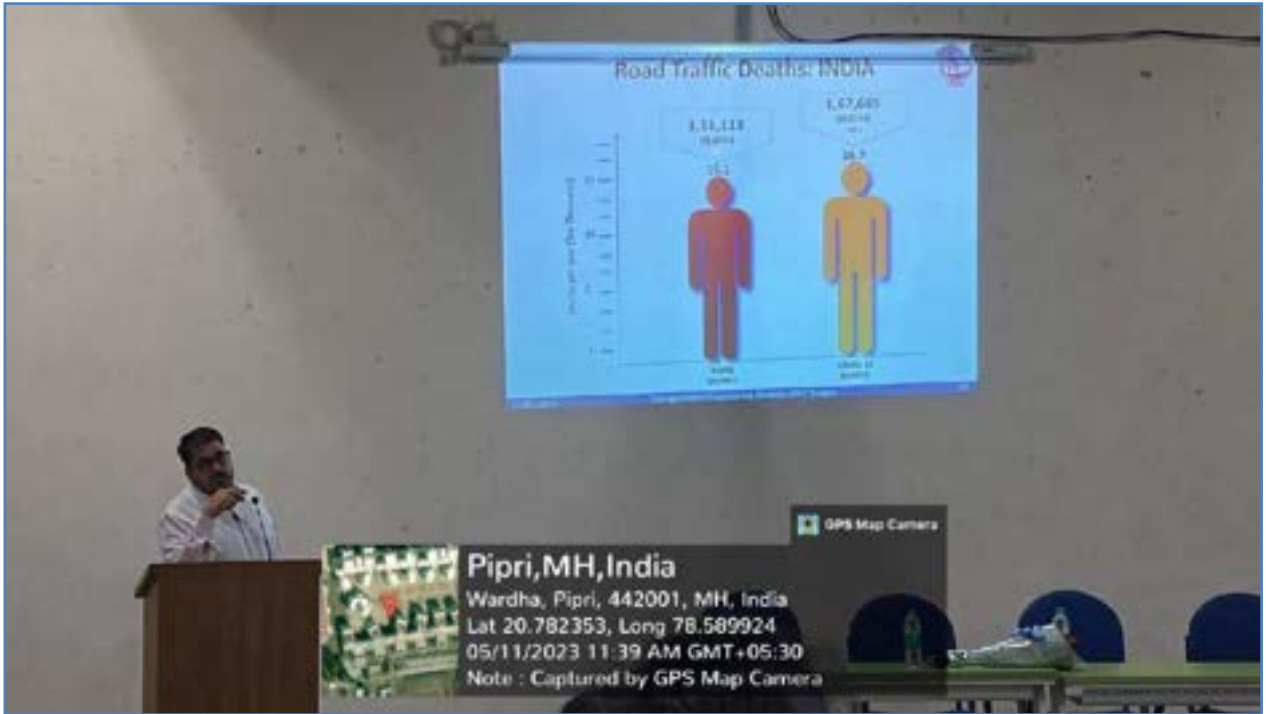
The Guest Speaker was Dr. Udit Jain, Assistant Professor, Department of Civil Engineering, VNIT, Nagpur. At the outset, Prof. V. P. Ravekar, N.S.S Programme Officer conducted the program with an inaugural speech. The Guest Speaker was welcomed at the hands of Dr. S. M. Mahajan, H.O.D. Civil engineering department and also offered with verbal welcome.

Approximately 110 Students participated in the expert talk. The Guest Speaker had well-explained road safety, their design criteria, and preventive measures that have to be taken in society. He also guided students in related rules and regulations of traffic. He also shared information related to his ongoing projects with the students which was related to road safety. An interactive and elaborative question-answer session was also carried out simultaneously. He appreciated the response from staff & students and also the arrangement made for the expert talk.

The program was conducted under the guidance of Principal, Dr. N. M. Kanhe, BIT, Wardha. Teaching & Non-Teaching Staff, NSS volunteers, and students attended the program.

Photographs of the activity:





PROGRAMME OFFICER
National Service Scheme (NSS)
Deji Institute of Technology,
WARDHA



Shiksha Mandal's

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World Aids Day

World AIDS Day, observed annually on **December 1st**, serves as a global opportunity to unite in the fight against HIV, show support for those living with the virus, and remember those who have lost their lives to AIDS-related illnesses. The National Service Scheme unit (NSS) of Bajaj Institute of Technology, Wardha, organized a thoughtful and impactful event on World AIDS Day.

The event commenced with an insightful inaugural address by Dr. Narendra Kanhe, Principal, highlighting the significance of World AIDS Day and the ongoing global efforts to combat HIV/AIDS. Dr. N. Kanhe emphasized the role of educational institutions in raising awareness and dispelling myths surrounding HIV/AIDS. Dr. S. M. Mahajan conducted a guidance session, providing students with in-depth information about the current scenario of HIV/AIDS, its prevention, and the importance of non-discrimination towards individuals living with HIV. He shed light on the need for education as a tool to eradicate misconceptions.

Photograph of the activity:



(Signature)



Shiksha Mandal's
Bajaj Institute of Technology
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International Yoga Day

The National Service Scheme (NSS) unit of Bajaj Institute of Technology, Wardha celebrated **9th International Yoga Day** on **21st June 2023** with great enthusiasm. Principal Dr. Narendra M. Kanhe and other faculty members also participated in the Program. The event began with the welcome speech by the Principal, Dr. Narendra M. Kanhe. He addressed the students and staff about the importance of Yoga in human life. It helps the person understand how to maintain harmony between body and mind.

Ms. Harita Wandhare, Second Year Mechanical Engineering student who is a certified Yoga Instructor conducted yoga session and stated benefits of yoga. She demonstrated and trained students on various asanas like Bhramari Pranayam, Anulom Vilom, Tadasan, Vargsan, Surya Namaskar Dhanurasana, Ustrasana, Navasana, Shavasana. The session was conducted in Workshop, Bajaj Institute of Technology from 7:45 am to 8:45 am.

Total 76 NSS volunteers and teaching & non-teaching staff of the college participated in the same. The Staff and students learnt and appreciated the yoga session.

Photograph of the activity:





PROGRAMME OFFICER
National Service Scheme (NSS)
EoJ Institute of Technology,
WARDHA



Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Rural Empowerment Initiatives

- Faculty supervised the construction of Pipri ZP school building.
- Collection of geographical data to convert a nalla in to K. T. weir Project.
- Mechanism for the Gate of KT weir was designed and fabricated in workshop.
- Design of Gravity Retaining Wall at KT Weir Nara, Wardha (MH.)
- Structural Design of the footbridge to cross a brook at Giroli Dhage Village
- Appropriate well's locations were scientifically identified for the farmers by the faculty.
- For information dissemination to rural youth and other people, a WhatsApp group is formed.



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Supervision of Construction of Z.P. School Building at Pipri.


The construction of the ZP School building at Pipri Village is a project undertaken by Jamnalal Bajaj Sewa Trust as part of its commitment to community development. Mr. Timande from Bajaj Institute of Technology was assigned the role of Construction and Maintenance In-charge to oversee the project's execution.

The construction project progressed according to the established timeline. The foundation work and the structural framework has been completed. Mr. Timande effectively managed the construction team, ensuring that each phase is executed efficiently. Quality control measures have been rigorously implemented throughout the construction process. Mr. Timande has conducted regular inspections to ensure that materials used meet the specified standards and that construction practices adhere to safety and quality guidelines.

Effective communication has been a cornerstone of the supervision process. Mr. Timande has maintained open lines of communication with the construction team, project stakeholders, and local authorities. Regular progress meetings have been conducted to address any concerns and ensure that the project stays on track.

The supervision conducted by Mr. Timande in the construction of the ZP School building at Pipri Village has been commendable. The project is progressing well, and his effective management and leadership skills have contributed to its success. The commitment to quality, safety, and communication bodes well for the timely and successful completion of the school building.




Dr. N.M. Kanhe
Principal
Bajaj Institute of Technology
Pipri, Wardha



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Survey Report of Nallah at Talegaon (Ta.), Wardha

Reference: With reference to the site visit, arranged on 14th march 2022, it was proposed to convert KT weir by elliptical concrete arch weir at Talegaon (Ta.), Wardha, During the visit, it was decided that, the BIT will be involved in to collect all data require for working out design.

With reference to the above, the survey of the nallah at village Talegaon (Ta.) Dist. Wardha (MH), was done on 16/05/2022 to 18/05/2022, and following survey report and observation notes were submitted

Location of site: Village Talegaon (Ta.), Wardha-Hinganghat Highway, Dist. Wardha (20.60615390183858, 78.67762331257866)

1. As per the data, The population of the village is 4600 (2011 census). But, according to locals, the population of the village is around 10500.



Alignment of Nallah

2. There is a CNB (Cement Nallah Bandhara) at the upstream side at a distance of 570 m from the existing K.T. Weir.
3. The left bank is broken near the K.T. Weir and it need to be rebuilt and elevated by at least 1.0 m. to prevent the flood water entering into nearby farms. (as shown in red oval)
4. The cross section of nallah is well defined for most of the length, almost 90% of length, the sides of nallah are vertical and both bunds are also in good conditions.



5. There are some secondary nallah along the length of primary nallah. Their locations are indicated in the following drawing. They can be easily rectified/blocked, if necessary.
6. Most of the nallah bed is rocky in nature. Even the exposed portion near K.T. Weir shows rock.

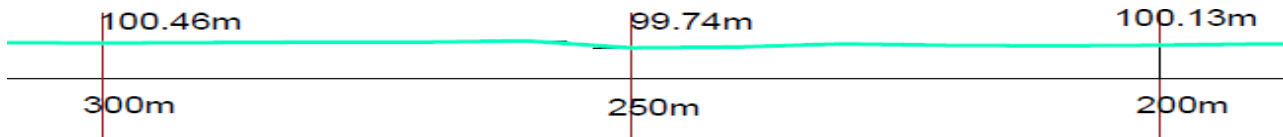


7. The overall average slope is found out to be 1:236.5 (V:H). The following figure shows the L-Section of Nallah along with the RLs at every 50 m interval. and the slope breakdown is for 0 m to 100 m → 1:125 (Negative)



For 100 m to 200 m → 1:107 (Positive)

For 200 m to 300 m → 1:303 (almost flat)



For 300 m to 400 m → 1:303 (almost flat)

For 400 m to 500 m → 1: 61 (Positive)

For 500 m to 570 m → 1: 156 (Positive)

From this, we can conclude that, the nallah is having the gentle slope.


The following diagram shows C/s at every 50 m interval.

From above data, we can conclude that, the maximum water storage capacity of the reservoir, by using trapezoidal equation, is as follows.


$$V = 25 \times (25.82 + 1.78 + 2(12.54 + 19.96 + 16.66 + 14.12 + 15.98 + 11.82 + 9.36 + 12.09 + 8.16))$$

$$V = 6724.5 \text{ m}^3 \text{ (Approximately)}$$

OUTPUT: The Profile levelling and cross section levelling of the nallah has performed and the Maximum Storage capacity of proposed reservoir is estimated.


A.V. Khandve

Submitted By
A.V. Khandve
(Assistant Professor)


S.M. Mahajan

HEAD
Department of Civil Engineering
Bajaj Institute of Technology, WARDH



JANKIDEVI BAJAJ GRAM VIKAS SANSTHA

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Ref. No. JBGVS/21-22/70

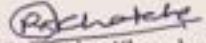
Date: 16/03/2022

Task completion certificate

Jankidevi Bajaj Gram Vikas Sanstha (JBGVS) have signed MOU with Zilla Parishad, Wardha to repair K.T. weir of Wardha District. Department of Civil Engineering, Bajaj Institute of Technology, Wardha was given the responsibility to collect all data required for convert the K.T. weir to Elliptical concrete arch weir working out design which includes K.T. weir drawing, catchment area and other works in Talegaon (Ta.).

This is to certify that the above mention task given to the Department of Civil Engineering, Bajaj Institute of Technology, Wardha is successfully completed.

Thanks!


Rajendra Kharche
(Team Leader)

Head Office : Survey No. 4272, Near Akurdi Post Office, Viveknagar, Akurdi, Pune - 411035

Tel. No. (020) 27242404/5/6, Email : pune@jbgvs.org.in, Website : www.jbgvs.org.in

Wardha Office : Opp. Gitai Mandir, Gopuri, Wardha - 442001. Tel. No. (07152) 250300. Email : jbgvswardha11@gmail.com

Design and Development of a Mechanism to Open and Close KT Weir (Kolhapur Type Bandhara) Gates

A Brief Report

Project Details:

Date of MoU: 01/11/2020

Project Name: Design and Fabrication of A Mechanism to Open and Close KT Weir Gates.

Funding Agency: Jankidevi Bajaj Gram Vikas Sanstha (JBGVS), Wardha

Fund Received: Rs. 100000 (One Lakh Rupees Only)

Project Duration: 11/11/2020 to 08/01/2021

In India, we have rains only for 3-4 months and then it is dry weather, so water is needed during lean period. The concept of building low height dam all along the river was introduced in the Maharashtra on the downstream of bridges to store water after rainy season is over so that the storage can be used for agriculture purpose as well for drinking. The technique of constructing a special type of weir across the river bed to store the water in post – monsoon season, was first implemented in Kolhapur, Maharashtra for meeting the agricultural water demand once monsoon surpasses.

KT weir (Kolhapur Type Bandhara) as shown in figure is a structure to be constructed transverse to the flow of natural stream channel having considerable gap between two piers to allow the passage to water stream.

These gaps being sealed with needle gates to restrict the flow of water so as to store it for future use when channel is having water deficit and do not have enough water to serve the human needs. This creates a storage reservoir at the upstream side of the structure which is being majorly used for fulfilling various water demands. Particularly, it is a non over flowing weir with a concrete deck at top which can be used as a bridge for light to medium traffic.



Figure 1. Bandhara/Barrage Structure constructed on Addan River, Distt. Yawatmal, Maharashtra (MoRTH,2017)

- The main advantage of KT weir is to raise the water level by stopping the water flow.
- It increases the backwaters for irrigation during lean period.
- KT weirs are also provided with gates, in the rainy season gates are opened to reduce the chances of flood
- However, at the end of the rainy season, these gates are closed to stop the flow of water and thus rises the water level.

These KT weir gates are mostly lifted using a permanent mechanism fixed with the KT weir. As it is permanent, it gets easily corroded and jammed. For every gate it requires a separate mechanism, thus increasing the KT weir cost. The newly designed proposed mechanism is portable and mobile; therefore, a single mechanism can be used at different KT weir sites. The following are the features of the mechanism.

Main Features of Mechanism

- Some KT weirs are constructed with and without road, this mechanism allows us to use in both cases.
- Can be used on small and large KT weirs
- Manually operated with Minimum labour
- No jam (due to rusting), easy lifting and less efforts required
- Portable, folding, and lightweight
- Cost effective and long life

Name of Inventor:



Dr. Vikas Gohil
Mechanical Engg. Dept.
Bajaj Institute of Technology, Wardha



Dr. Deepak V. Bhope
HEAD
Department of Mechanical Engineering
Bajaj Institute of Technology, WARDHA



Figure 2 Proposed and installed mechanism

Video Link - <https://drive.google.com/file/d/11CqKvdiILXApMYuQacvotoIjnyefBwHr/view?usp=sharing>

his


HEAD
Department of Mechanical Engineering
Bajaj Institute of Technology, WARDHA



JANKIDEVI BAJAJ GRAM VIKAS SANSTHA

Registered as Society under Societies Registration Act, 1860 and a Public Trust Under the Bombay Public Trust Act, 1950

Ref. No. JBGVS/21-22/35B

Date: 20/06/2021

Work completion certificate

Jankidevi Bajaj Gram Vikas Sanstha (JBGVS) has signed MOU with Bajaj Institute of Technology, Wardha to design and fabricate a mechanism to open and close KT weir gates on dated 1 November 2020. Department of Mechanical Engineering, Bajaj Institute of Technology, Wardha was given the responsibility to complete this work. The mechanism was designed and fabricated between 11th November 2020 to 8th Jan 2021. This device was demonstrated and used at the Moi (Bramhani) barrage constructed on Bor river.

This is to certify that the above mention work given to Bajaj Institute of Technology, Wardha is successfully completed.

Thanks!

Rajendra Kharche
(Team Leader)

Head Office : Survey No. 4272, Near Akurdi Post Office, Viveknagar, Akurdi, Pune - 411035

Tel. No. (020) 27242404/5/6, Email : pune@jbgvs.org.in, Website : www.jbgvs.org.in

Wardha Office : Opp. Gitai Mandir, Gopuri, Wardha - 442001, Tel. No. (07152) 250300. Email : jbgvswardha11@gmail.com

Memorandum of Understanding between Jankidevi Bajaj Gram Vikas Sanstha, Wardha and Bajaj Institute of Technology

Jankidevi Bajaj Gram Vikas Sanstha, Wardha, hereinafter referred to as JBGVS, is a rural development NGO. It has entered into a Memorandum of Understanding for 3 years with Zilla Parishad, Wardha for maintaining and repairing water body structures in 130 villages. It requests the support and guidance of Bajaj Institute of Technology, hereinafter referred to as BIT, in this project.

Bajaj Institute of Technology is a Technology Institution and engaging in such projects is a part of its core mandate. It is pleased to cooperate with JBGVS in this project.

JBGVS needs immediate support from BIT for two tasks:

1. Development of a tool to install and remove plates in Kolhapuri Type or KT, weirs.
2. Assessment and recommendation of repair for selected KT weirs.

The tool is required to install and remove 84 kg plates, which are 2.1 meters by 0.5 mtrs in size. There are multiple plates in each pier. The tool should be able to be dismantled and erected at site. It should not weigh more than 100 kg. BIT would provide drawings and help to suppliers selected by JBGVS to productionise the tool. The Intellectual Property Rights, if any, arising from this development would be with BIT.

Time Horizon:

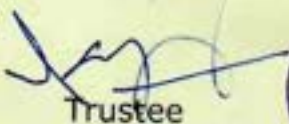
1. The tool prototype should be ready in 12 weeks of signing of this MOU.
2. The KT weir related work would happen between January-March 2021.

Compensation:

1. For development of the tool and supply of one prototype JBGVS would pay BIT Rs 1 Lac.
2. For assessment and recommendation of repair of each KT Weir JBGVS would pay Rs 10,000 per KT Weir. JBGVS would inform BIT about each KT weir where its recommendation is required. JBGVS would organize travel of BIT personnel to the sites.

Payment would be made within a week of raising of a bill by BIT.

For JBGVS


Trustee



Trustee
Jankidevi Bajaj Gram Vikas
Sanstha, WARDHA

For BIT


Principal

PRINCIPAL,
Bajaj Institute of Technology,
PIPRI, Wardha.



Shiksha Mandal's
Bajaj Institute of Technology
(Approved by AICTE, and affiliated to Dr. Babasaheb Ambedkar Technical
University, Lonere)
Arvi Road, Pipri – Wardha - 442001
Post Box. No. 25, Phone / Fax (07152) 254770, 255770

Date:12/06/2021

DEPARTMENT OF CIVIL ENGINEERING

TITLE OF PROJECT: Design of Gravity Wall at KT Weir Nara, Wardha (MH.)

The following undersigned staff members of Department of Civil Engineering, Bajaj Institute of Technology, Wardha, Visited the site and NARA (Tah.-Karanja), Wardha on 20/04/2021 for site study and taking out soil sample for the design of Gravity Wall near KT weir. During this visit, we perform following.

1. Investigate the soil.
2. Collect the soil samples from the river bed and the river bank.
3. Perform the core cutter test on soil.
4. Inspect visually the components of weir such as existing deck slab, piers, abutments, key wall.
5. Inspect key wall in view of the design of the proposed key wall.
6. Take measurements of few components like height of piers etc.

Also, the adjoining farms are visited to check the benefit or adverse effect on it due to the proposed construction of key wall.

Observation: The river water seems to have outflanked or made way through its bank due to the obstruction caused due to KT weir.

The design of Gravity wall is based on the observation and the geotechnical properties of soil sample, which was collected from the site and required parameter were investigated by conducting various test in the Geotechnical Laboratory at Bajaj Institute of Technology Wardha.

- **Wall type:** Gravity wall
- **Suggested material of construction:** Plum concrete (1:2:4) with 20% higher size boulder (Max. size of boulder is 300 mm)
- **Height of wall from the ground:** 3.0 m.
- **Overall height of wall:** 5.0 m

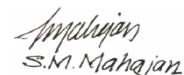
For the further action, the detailed report of the design is attached along with this letter.


A. V. Khandve

Prof. A.V. Khandve
(Assistant Professor)



Prof. A. G. Dabli
(Associate Professor)


S.M. Mahajan

Dr. S. M. Mahajan
(Professor and Head)

Report on KT weir (Bandhara) at NARA, KARANJA (GHADGE)

A site visit was arranged on Tuesday, 20th April 2021 with Dr. Sanjay Mahajan, Prof. Ashutosh Dabli, Prof. Amit Khandve and Lab Assistant Mr. Thakare to –

7. Investigate the soil,
8. Collect the soil samples from the river bed and the river bank,
9. Perform the core cutter test on soil,
10. Inspect visually the components of weir such as existing deck slab, piers, abutments, key wall,
11. Inspect key wall in view of the design of the proposed key wall,
12. Take measurements of few components like height of piers etc

Also, the adjoining farms are visited to check the benefit or adverse effect on it due to the proposed construction of key wall.

Observation : The river water seems to have outflanked or made way through its bank due to the obstruction caused due to KT weir.

My opinion –

1. The study of hydraulic data has to be done to check the maximum height of water column during the worst flood along with the soil investigation
2. Need to extend the stone masonry key wall which appeared to be demolished or got demolished.
 - a) **Solution I** : Construction of UCR masonry may appear to be cheaper and faster solution. But the availability of stone and skilled labors would be the problem anticipated.
 - b) **Solution II** : It is proposed to **design and construct** a key wall of plum concrete allowing 15% rubble stones in mass concrete (so that the contractor will restrict it up to 30%) with counterforts if required and stone pitching on either sides. The length of the wall going at least 3 meters beyond the bank into the adjoining farm.

Solution II is highly recommended even though expensive to meet the credibility and reputation of Bajaj Foundation.





JANKIDEVI BAJAJ GRAM VIKAS SANSTHA

Registered as Society under Societies Registration Act 1860 and a Public Trust Under the Bombay Public Trust Act 1950

Ref. No. JBGVS/21-22/25

Date: 18/04/2021

Task completion certificate

Jankidevi Bajaj Gram Vikas Sanstha (JBGVS) have signed MOU with Zilla Parishad, Wardha to repair K.T. weir of Wardha District. Department of Civil Engineering, Bajaj Institute of Technology, Wardha was given the responsibility to designed Gravity retaining wall at K.T. weir, Nara (Tq. Karanja)

This is to certify that the above mention task given to the Department of Civil Engineering, Bajaj Institute of Technology, Wardha is successfully completed.

Thanks!

Rajendra Kharche
(Team Leader)

Head Office : Survey No. 4272, Near Akurdi Post Office, Viveknagar, Akurdi, Pune - 411035

Tel. No. (020) 27242404/5/6, Email : pune@jbgvs.org.in, Website : www.jbgvs.org.in

Wardha Office : Opp. Gitai Mandir, Gopuri, Wardha - 442001 Tel. No. (07152) 250300. Email : jbgvswardha11@gmail.com

STRUCTURAL DESIGN REPORT

“FOOTBRIDGE: GIROLI DHAGE VILLAGE”

Prepared by:

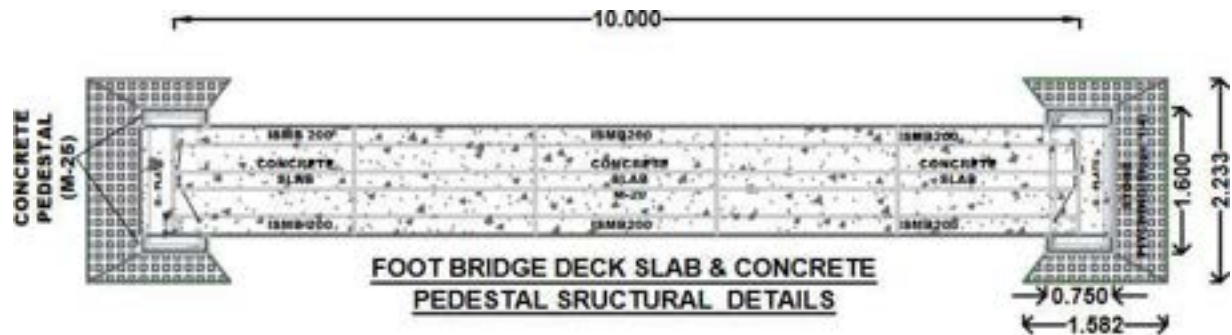
DEPARTMENT OF CIVIL ENGINEERING


GENERAL INFORMATION AND OBSERVATION:

1. Name of Structure : **Foot bridge**
2. Address : **Giroli Dhage Village, Wardha district, Maharashtra**
3. Date of visit : **1st April 2023**
4. Age of Structure : **Proposed**
5. Mode of use : **Pedestrian**
6. Level of Submersible : **Moderate**
7. Flood history : **Nil**
8. Date drawing submission : **5/04/23**

Department of Civil Engineering, Bajaj Institute of Technology, Wardha was entrusted the structural design of the footbridge to cross a brook at Giroli Dhage Village, Wardha district, Maharashtra. The proposed span of bridge was 10m and width is 1.2m. The vehicles considered on bridge was foot walkers and bicycles.

Following are the structural drawing and detailing for the footbridge.




Dr. V.M. Thakur
Faculty In-charge


Dr. S. M. Mahajan
HOD-Civil Engineering
HEAD
Department of Civil Engineering
Bajaj Institute of Technology, Wardha


Dr. N.M. Kanhe
Principal
Principal
Bajaj Institute of Technology
Wardha



Giroli, Maharashtra, India
RJXC+V4R, Giroli, Maharashtra 442111, India
Lat 20.849037°
Long 78.619846°
01/04/23 11:41 PM GMT +05:30

Google

GPS Map Camera

JAMNALAL BAJAJ SEWA TRUST (JBST)

(Regd. Office : BACCHARAJ ROAD, WARDHA, MAHARASHTRA)

JBST/2023-24/14

Date: 10/06/2023

Task Completion Certificate

Giroli Dhage put the proposal for the foot bridge over the nalla, in Jamnalal Bajaj Sewa Trust. JBST organized the committee to observation and making plan for Foot Bridge with the help of Bajaj institute of Technology. The plan is ready to make bridge. It will be executed coming days.

This is to certify that the above mentioned task given to the Department of civil Engineering, Bajaj Institute of Technology, Wardha is successfully completed.

Thanks!


Rajendra Kharche
(Team Leader)
Team Leader
Jamnalal Bajaj Sewa Trust
WARDHA

Contact Address : Jamnalal Bajaj Sewa Trust, Opposite Gitai Mandir, Gopuri, Wardha - 442001
Ph. 07152-250300, Email : jbstwardha@gmail.com



Shiksha Mandal's

Bajaj Institute of Technology

(Approved by AICTE, and affiliated to Dr. Babasaheb Ambedkar
Technical University, Lonere)

Arvi Road, Pipri – Wardha - 442001
Post Box. No. 25, Phone / Fax (07152) 254770, 255770

The Bajaj Institute of Technology, Wardha, conducted an Electric Resistivity Test in the villages of Karla, Pipri, and Mhasala on 2nd June 2022, to identify suitable locations for well construction. This initiative aims to enhance water availability for agricultural activities, ultimately benefiting the farmers in these regions. The basic purpose of the Electric Resistivity Test was to determine the subsurface resistivity of the soil, which is crucial in identifying potential water sources for well construction. This information aids in selecting optimal locations to ensure the sustainability and effectiveness of wells for irrigation purposes.

The Bajaj Institute of Technology faculty conducted systematic resistivity surveys at selected sites, covering a range of depths to gather comprehensive data and recorded resistivity values and corresponding depths using advanced data logging equipment. They have analyzed the collected data to identify variations in resistivity, indicating potential aquifers or water-bearing layers. Based on the Electric Resistivity Test, several promising sites were identified in the Karla, Pipri, and Mhasala villages. The resistivity data indicated the presence of subsurface layers with high water content, suggesting viable locations for well construction hence based on data some points were recommended for drilling wells at identified sites with high resistivity variations indicative of potential water-bearing layers.

The Electric Resistivity Test conducted by the Bajaj Institute of Technology in Karla, Pipri, and Mhasala villages has successfully identified potential sites for well construction. The outcomes of this initiative have the potential to significantly improve water availability for agricultural activities, thereby contributing to the overall prosperity of the farming communities in these regions. The initiative taken by Bajaj Institute of Technology appreciated by farmers, local authorities (Gram-Panchayat).





Shiksha Mandal's
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Web Site: www.bitwardha.ac.in, Email :
bit@bit.shikshamandal.org



Information Dissemination – Through WhatsApp Group

Title: Report on Information Dissemination to Rural Youth through WhatsApp Group: A Bajaj Institute of Technology Initiative in Pipri, Pandharkawda

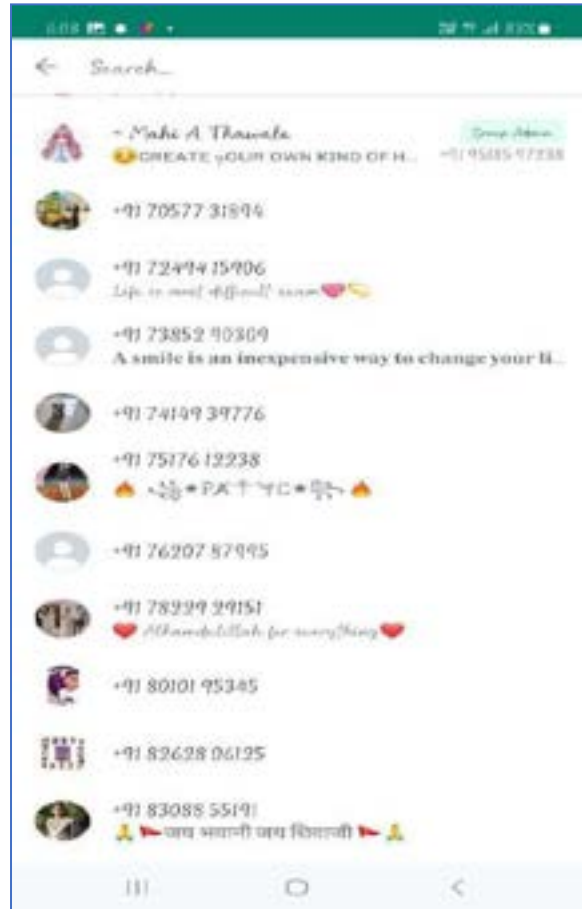
In a bid to empower and inform the youth in Pipri, Pandharkawda, Bajaj Institute of Technology, Wardha, initiated a progressive program involving the creation of a WhatsApp group. Launched with the primary aim of disseminating valuable information to the rural youth, this report highlights the establishment, operation, and impact of this innovative communication platform.

The primary objective of forming the WhatsApp group is to provide rural youth with easy access to relevant information, including educational opportunities, employment updates, and skill development programs. Also, to promote digital literacy by utilizing widely-used platforms like WhatsApp for information dissemination.

The WhatsApp group was formed in collaboration with local community leaders, educators, and representatives from Bajaj Institute of Technology. In which, all information shared on the group is curated and moderated to ensure accuracy and relevance. The WhatsApp group serves as a comprehensive source of information, covering various categories beneficial to the rural youth: like updates on scholarships, entrance exams, and educational opportunities, employment, vocational training programs, updates on relevant government schemes and initiatives.

The outreach strategy involves collaboration with local community leaders, schools, and youth organizations to ensure maximum participation. The Information Dissemination through WhatsApp Group initiative by Bajaj Institute of Technology in Pipri, Pandharkawda, stands as a testament to the institute's commitment to community development. By leveraging digital platforms, the program effectively bridges the information gap for rural youth, empowering them with opportunities for education, employment, and skill enhancement. As the initiative

continues to evolve, it is expected to play a pivotal role in the holistic development of the rural youth in the region.



Dr.N.M.Kanhe

**Principal
PRINCIPAL**

Buaj Institute of Technology,
PEPRA, Wardia



Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Social Responsibility

- Blood donation camps.
- Old clothes distribution to orphanage and old age home.
- Masks & sanitizers distribution during covid-19.
- NGO of students, 'Light Wardha', conducted various social activities in the community.



Shiksha Mandal's

Bajaj Institute of Technology

(Approved by AICTE, and affiliated to Dr. Babasaheb Ambedkar Technical University, Lonere)

Arvi Road, Pipri – Wardha - 442001

Post Box. No. 25, Phone / Fax (07152) 254770, 255770

Web Site: www.bitwardha.ac.in, Email : bit@bit.shikshamandal.org



Report on Blood Donation Camp

The National Service Scheme (NSS) unit of Bajaj Institute of Technology, Wardha, organized a blood donation camp in collaboration with blood bank of Kasturaba Hospital (Sewagram) and Civil Hospital Wardha, on 10th June 2022 to mark the birth anniversary of Padmabhushan late Shri. Rahulji Bajaj.

The camp began at 10.00 a.m. with a short inaugural function where in Dr. Narendra Kanhe, Principal of the college gave a floral tribute to Late Shri. Rahulji Bajaj. The camp received an overwhelming response, wherein more than 150 students and faculty participated to donate blood. The blood donation camp was conducted and coordinated by Vikas Ravekar, Asst. Prof. in Civil Engg. and NSS Program Officer and Parag Kombe, Administrative Officer, BIT.

Mr. Sanjay Bhargava, Chairman, Shiksha Mandal was also present to appreciate and congratulate the donors who donated blood in this camp. Dr. N. M. Kanhe expressed his gratitude to the NSS unit of the college for its continuous endeavor in this regard. He also stressed on the growing need of blood in the state and commended the young volunteers for their noble gesture. Total 160 volunteers came forward to donate blood during the camp which included teaching & non-teaching staff, students. The blood donors were provided with a blood donation certificate by MGMIC and Civil Hospital.

NSS student volunteers of BIT and the non-teaching staff worked hard for the smooth conduction of the event.

TheHitavada
Vidarbha Line | 2022-06-12 | Page- 4

and Tabaka President Adv/Sunil Vitthal Narote, Shrirang Kose,

Rahul Bajaj remembered on 84th birth anniversary




(L) The programme of Abhang recitation going on at Shiksha Mandal. (R) Blood donation camp organised at BIT.

District Correspondent
WARDHA, June 11

A BLOOD donation camp was organized by the NSS unit of Bajaj Institute of Technology (BIT) on June 10 on the occasion of birth anniversary of Padma Bhushan late Rahul Bajaj. The camp was organised at BIT Campus, Pipri in association with Civil Hospital and Sewagram Hospital, Wardha.

It received an overwhelming response, wherein more than 150 students and faculty participated to donate blood. The blood donation camp was conducted and coordinated by Vikas Ravekar, Asst Prof in Civil Engg and Program Officer, NSS, Parag Kombe, Administrative Officer, BIT.

Sanjay Bhargava, Chairman, Shiksha Mandal, Dr Narendra Kanhe, Principal, BIT were also

present to appreciate and congratulate the donors who participated in this camp.

NSS student volunteers of BIT and the non-teaching staff worked hard for the smooth conduction of the event.

Earlier in the day, a devotional songs programme by students of Shiksha Mandal was organised to offer homage to Late Rahul Bajaj, who was President of Shiksha

Mandal Wardha.

Similarly, Shiksha Mandal organised a session of 'abhangs' by its students and a blood donation camp. 124 students and faculty donated blood on the occasion of Rahul Bajaj's birth anniversary.

"We cherish his contribution to the institution and celebrate his extraordinary life," said Sanjay Bhargava, the Chairman of Shiksha Mandal.

PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA

GENERAL HOSPITAL, WARDHA

Civil Surgeon
District Hospital Wardha



O/o Civil Surgeon
District Hospital Wardha
☎ (07152)243066
E-mail- cswardha@rediffmail.com

Date: 14/06/2022

Certificate of Award

With great pleasure, we, the Blood Bank of Civil Hospital, Wardha, would like to thank the NSS Unit of Bajaj Institute of Technology, Wardha, for organizing the blood donation camp on 10th June 2022, and to present them with a certificate.

We guarantee that Civil Hospital, Wardha will assist you in the future in any manner that we can, and we would be delighted to participate in any social welfare programs offered by your organization. We humbly ask that you plan further blood donation and health screening events in the future and educate the public about the true meaning of humanity and the significance of blood donation.

Thank you and best regards.



Civil Surgeon

District Hospital, Wardha

Dr. Anil Wankhade
Additional Civil Surgeon
General Hospital, WARDHA
Reg. No. 66377



Lic. No. :
ND/BB/13

Kasturba Health Society's
Blood Centre
Department of Pathology
Mahatma Gandhi Institute of Medical Sciences
Sevagram, District-Wardha-442 102.



Reference No.: 1795

Date: 06-06-2022

To,
The Chairman & Trustee,
Shri. Sanjay Bhargava,
Shiksha Mandal, Jamnalal Bajaj Marg,
Civil Lines, District—Wardha—442001.

Sir,
Thanks for your email letter dated on 06-06-2022 received for organizing a Voluntary blood donation camp is organized by Shiksha Mandal, Jamnalal Bajaj Marg, Civil Lines, Wardha at Bajaj Institute of Technology, Pipri, District—Wardha on Friday, 10th June 2022. We confirm the date for the camp. We presume the camp will start at 10.00 a.m.

We request you to arrange for the following for this camp.

- 1) Bleeding Table – 03 Nos. with mattresses or cots with height and mattresses.
- 2) Working Table – 02 Nos.
- 3) Carpet with Mattress on the floor for donors to take rest and refreshment after donation.
- 4) Arrangement for refreshment i.e. cold drink 1 bottle or snacks and a cup of tea
- 5) The spacious room or Hall which will be ventilated and with fans/coolers for conducting blood donation camp.
- 6) In case, there is no electric supply please arrange for a generator.
- 7) Please arrange the hand wash and sanitizer station at your place.

We have got a provision to pay for the refreshment charges maximum ₹ 25/- per donor, which will be paid during the camp.

Our team comprising of about 07 staff members will start from blood centre at 10.00 a.m. Friday, 10th June 2022 so as to start the blood donation well in time.

Thanking you,

Yours Sincerely,

Dr. Anupama Gupta
Director-Professor & Head,
Department of Pathology,
MGIMS, Sevagram.



Lic. No. :
ND/BB/13

Kasturba Health Society's
Blood Centre
Department of Pathology
Mahatma Gandhi Institute of Medical Sciences
Sevagram, District-Wardha-442 102.



Reference No.: 1812

Date: 13-06-2022

To,
The Chairman & Trustee,
Shri. Sanjay Bhargava,
Shiksha Mandal, Jamnalal Bajaj Marg,
Civil Lines, District—Wardha—442001.

Sir,

We are extremely thankful to you for arranging voluntary blood donation camp and for donation of 46 units of blood organized by Shiksha Mandal, Jamnalal Bajaj Marg, Civil Lines, Wardha at Bajaj Institute of Technology, Pipri, District—Wardha on Friday, 10th June 2022. Our special thanks to all the Employees of Shiksha Mandal, Wardha exerted a lot to make this camp a success. We are also thankful to the blood donors & other members, who participated in blood donation camp.

We highly appreciate the gesture of all the members in arranging for voluntary donation of blood to help the needy and poor patients in our hospital. We hope this organization will keep up with this highly valued and commendable work.

Thanking you,

Yours faithfully,


Dr. V. B. Shivkumar
In-charge
Blood Centre, Sevagram.



Lic. No. :
ND/BB/13

Kasturba Health Society's

Blood Centre

Department of Pathology

Mahatma Gandhi Institute of Medical Sciences

Sevagram, District-Wardha-442 102.



Reference No.: 1812

Date: 13-06-2022

VOLUNTARY BLOOD DONATION CAMP

Date : Friday, 10th June 2022

Organized by : Shiksha Mandal, Jarnalal Bajaj Marg, Civil Lines, Wardha.

Sr. No.	Blood Bag No.	Name of Donors	Age / Sex	Blood Group
1	3231	Mrs. Mamta R. Chandrakar	49/F	B +ve
2	3232	Mr. Pranay H. Nawghare	20/M	O +ve
3	3233	Mr. Deep S. Rode	21/M	A +ve
4	3234	Mr. Rugved S. Surkar	21/M	A +ve
5	3235	Mr. Aryan A. Gulhane	20/M	O +ve
6	3236	Ms. Piyushi N. Lobhe	19/F	O +ve
7	3237	Mr. C. N. Tekade	31/M	B +ve
8	3238	Mr. Pranav V. Chavan	19/M	B +ve
9	3239	Mr. Suraj P. Ughale	20/M	B +ve
10	3240	Ms. Anushka S. Tiwari	18/F	B +ve
11	3241	Ms. Avantika P. Barudwale	19/F	O +ve
12	3242	Ms. Disha Atkari	20/F	O +ve
13	3243	Mr. Akash D. Lewade	29/M	O +ve
14	3244	Mr. Darshan G. Vaidya	21/M	AB +ve
15	3245	Mr. Raman H. Wadibhasme	21/M	B +ve
16	3246	Ms. Sakshi R. Jadhao	18/F	O +ve
17	3247	Mr. Yash N. Kochar	18/M	O +ve
18	3248	Mr. Jay Jadhao	20/M	AB +ve
19	3249	Mr. Uday V. Dole	21/M	O +ve
20	3250	Mr. Parth M. Kaware	21/M	A +ve
21	3251	Mr. Aditya V. Meharkure	21/M	B +ve
22	3252	Mr. Shiv U. Chafle	21/M	O +ve
23	3253	Mr. Vedant M. Jagtap	20/M	A +ve
24	3254	Mr. Mayank V. Agrawal	22/M	AB +ve
25	3255	Mr. Dhvani A. Sarokar	20/M	B +ve
26	3256	Ms. Sakshi R. Thakre	20/F	AB +ve
27	3257	Mr. Shantanu S. Radke	18/M	O +ve
28	3258	Mr. Pranav N. Tiwari	18/M	B +ve
29	3259	Ms. Sejal G. Patre	19/F	B +ve
30	3260	Ms. Renuka A. Kothekar	19/F	B +ve
31	3261	Mr. Sushant R. Hande	24/M	B +ve
32	3262	Ms. Harsha A. Thakre	22/F	O +ve
33	3263	Ms. Khushi R. Sahu	19/F	A +ve

Telephone No. : 07152-284245, 284341 to 355, Ext. 273,

E-mail ID : bloodbank@mgims.ac.in



Lic. No. :
ND/BB/13


Kasturba Health Society's
Blood Centre
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Mahatma Gandhi Institute of Medical Sciences
Sevagram, District-Wardha-442 102.



Reference No.: 1812

Date: 13-06-2022

34	3264	Mr. Gaurav M. Pikalmunde	22/M	O +ve
35	3265	Ms. Gauri P. Sagane	19/F	A +ve
36	3266	Mr. Vikrant S. Khadatkar	24/M	O +ve
37	3267	Ms. Puja P. Wagh	19/F	O +ve
38	3268	Mr. Gaurav Dambhare	23/M	B +ve
39	3269	Mr. Pawan V. Wankhede	22/M	B +ve
40	3270	Mr. Pratik P. Wankhede	26/M	O +ve
41	3271	Mr. Deep Ingole	21/M	A +ve
42	3272	Mr. Abhishek S. Umre	18/M	O +ve
43	3273	Mr. Prashant P. Karekar	48/M	O +ve
44	3274	Dr. P. N. Chavan	32/M	O +ve
45	3275	Mr. Samiran A. Wankhede	21/M	A +ve
46	3276	Mrs. Rani A. Kale	33/F	A +ve
Male = 32 & Female = 14 Total = 46 Donors				


Dr. V. B. Shivkumar
In-charge
Blood Centre, Sevagram.



Shiksha Mandal's
Bajaj Institute of Technology
(Approved by AICTE, and affiliated to Dr. Babasaheb Ambedkar Technical
University, Lonere)
Arvi Road, Pipri – Wardha - 442001
Post Box. No. 25, Phone / Fax (07152) 254770, 255770
Web Site: www.bitwardha.ac.in, Email : bit@bit.shikshamandal.org

Dept. of Electrical Engineering
Power BIT

ACTIVITY REPORT (Session 2019-20)

MANAVTA- Cloth donation

Name of activity: Cloth Donation

Date and venue of activity: 14 November 2019 at Anandvan Visava Prkalp,
Sewagram , Wardha.

Internal co-ordinators: HOD Dr. Harshit Dalvi
Prof. A. S. Marothiya
Forum members.

Purpose of activity:

Purpose of this activity was to inculcate sense of social responsibility towards society among students and to provide the collected clothes to the needy ones.

Activity summary:

All the college students from various branches, faculty members and staff came forward and donated clothes which were then taken to the ashram by the coordinators and forum members. Forum members interacted with people in the ashram and distributed clothes to them.

Details and data records of the clothes that were collected:

Sr no	Name of item	Quantity
1	Men's wear	67
2	Women's wear	21
3	Kids wear	67
4	Winter clothes	62




HEAD
Department of Electrical Engineering
Bajaj Institute of Technology, RAJGIRI

महारोगी सेवा समिती, वरोरा

स्थापना १९४९

[नोंदणी क्र. F-24(C) - महाराष्ट्र सार्वजनिक विवस्त कायदा, १९५० अंतर्गत]

मु. पो. आनंदवन,

तालुका : वरोरा, जिल्हा : चंद्रपूर,

महाराष्ट्र राज्य, (भारत), पिन: ४४२९१४

ई-मेल : finance@maharogisewasamiti.org

वेबसाईट : www.anandwan.in

दुरध्वनी : + ९१ - ७१७६-२८२०३४

ध्रमध्वनी : + ९१ - ९६८९३४४९९९

आनंदवन : ०९ : नवम्बर : २०२३

दीपावली

एवम्



नुतन संवत्सर के पर्व पर हार्दिक शुभकामनाएँ !!

आत्मीय श्री. अनिरुद्ध मारोटियाजी

द्वारा : बजाज इन्स्टिट्यूट ऑफ टेक्नॉलॉजी [वर्धा]

वर्धा ४४२ ४०२

सादर प्रणाम

दीपावली एवम् नुतन संवत्सर के मंगल पर्व पर

आपको ... बजाज इन्स्टिट्यूट के समी मान्यवर सदस्यों को आमटे तथा आनंदवन परिवार की ओरसे हार्दिक शुभकामनाएँ !!

गत दो साल से हमारे विसावा प्रकल्प पर रह रहे बांधवों की दीपावली आप के योगदान स्वरूप प्राप्त पुराने कपडों के कारण सुहावनी होती जा रही है. आप के इस अपनापन तथा सामाजिक दायित्व का हम सम्मान करते हैं ... अंतःकरणपूर्वक आभार भी व्यक्त करते हैं.

केवल कुष्ठरोग के कारण

समाज के साथ नजदिकी रिस्तेदारों से बहिष्कृत इन बांधवों ने ना रिस्तेदारों को दोषी ठरहराया ना ही अपने नसीब को ! उन्हाने ठान ली की उन्हें संस्थामे रह कर ही अपनी नयी जिन्दगी बसानी है. बाबा आमटे ने उन्हें विश्वास दिलाया, याचना के लिए हाथ फैलाने के बजाय उनके हाथों को काम दिया, नवनिर्मिती की दिशा दिखलायी, जिस के कारण मध्यभारत के आदिवासी परिसरमे ०६ प्रमुख प्रकल्पोंका निर्माण हुवा, विविध उपक्रम चलाने मे मदद मिली. आप को विश्वास नही होगा ... संस्थामे रह रहे बांधवों की आवास व्यवस्था, स्कूलों, कार्यशालाओं की इमारतें तथा खेती, गोशाला, जल, पेयजल की सारी व्यवस्था मे उनका ही पूरा योगदान रहा है. संस्था का दैनंदिन कारोबार सम्हालने में वे अग्रसर रहे हैं

आनंदवन के साथ अन्य प्रकल्पों पर आप का ... आपके परिवार का हमेशाही स्वागत

भवदीय,

डॉ. विकास आमटे

सचिव : मुख्य कार्यकारी अधिकारी - महारोगी सेवा समिती, वरोरा

द्वारा : श्री. उमेश ठाकूर

विसावा प्रकल्प प्रमुख : सेवाग्राम



Shiksha Mandal's

Bajaj Institute of Technology

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Post Box. No. 25, Phone / Fax (07152) 254770, 255770

Web Site: www.bitwardha.ac.in, Email : principal@bitwardha.ac.in



Mask Making & Distribution

The National Service Scheme (NSS) unit of Bajaj Institute of Technology, Wardha organised program on 1st July 2020 for distribution of masks and sanitizers to those needy people who were found not using the mask and sanitizers.

The student of NSS unit and faculty of Bajaj Institute of Technology took efforts to provide needy things to the people living in surrounding villages. Dr. Narendra Kanhe, Principal Bajaj Institute of Technology initiated the program by handing over masks and sanitizers to the people. At the same time, he told the importance of using mask and sanitizer for the safety and security from Covid 19.

He also suggested some majors like to keep social distance, washing hands at regular interval, eating healthy diet, avoid going in crowd etc. The NSS program officer Prof. Vikas Ravekar Put forth his views regarding creating awareness about Covid 19.

Nearly 30 volunteers of NSS unit Bajaj Institute of Technology were present. Around 150 persons handed over the masks and sanitizers.



Vikas Ravekar

PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA

Report on Visit to Sankalp Orphanage by Light Wardha NGO on Independence Day Celebration

Date: 15/08/2022

Location: Sankalp Orphanage, Wardha

Organized by: Light Wardha NGO

On 15/08/2022 members of Light Wardha NGO conducted a visit to Sankalp Orphanage, a home for underprivileged children located in Wardha. The purpose of the visit was to celebrate Independence Day and engage in activities that would bring joy, awareness, and educational value to the children residing at the orphanage. The members of Light- Wardha conducted various activities in orphanage like:

Cake Cutting Ceremony:

The day began with a symbolic cake-cutting ceremony, symbolizing the spirit of freedom and independence. Children and members of Light Wardha gathered together for this joyous occasion, fostering a sense of unity and happiness.

One-Time Meal Distribution:

As part of the Independence Day celebration, a special one-time meal was organized for the children. Volunteers from Light Wardha worked alongside the orphanage staff to ensure that a nutritious and delicious meal was provided to every child, enhancing their Independence Day experience.

Gift Distribution:

Light Wardha members brought gifts for the children, including essential items and items that would contribute to their education and well-being. The distribution of these gifts aimed to bring smiles to the faces of the children and enhance their overall living conditions.

Moral Education Session:

A dedicated session on moral education was conducted, emphasizing values such as respect, compassion, and equality. Volunteers engaged the children in interactive discussions and activities to instill positive values and promote character development.

Hygiene Awareness Campaign:

Recognizing the importance of hygiene in maintaining good health, an awareness campaign was conducted. Children were educated about the significance of personal hygiene, cleanliness, and sanitation. The session included interactive demonstrations and discussions to make the learning experience engaging and memorable.

The activities, ranging from educational sessions to gift distribution, aimed not only to celebrate Independence Day but also to impart valuable life lessons and create positive memories for the children at the orphanage.

The visit to Sankalp Orphanage by Light Wardha NGO was a heartwarming and fulfilling experience. The celebration of Independence Day became a medium to spread happiness, awareness, and care among the children, fostering a sense of belonging and hope for a brighter future.

As an NGO committed to social welfare, Light Wardha continues to strive towards making a positive impact on the lives of underprivileged individuals, and this visit was a small yet meaningful step in that direction.

Photographs of activity:





Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Unnat Bharat Abhiyan (UBA)

- Student volunteers conducted survey in 5 villages.
- Project on solar panel installation and lighting for school building was completed through UBA grant.



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Report on Village Survey Programme

Bajaj Institute of Technology, Wardha, organized the Village Survey Programme from 17th December 2018 to 21st December 2018. These surveys were conducted under the Unnat Bharat Abhiyaan.

The students visited five villages (Bhaiyapur, Mamdapur, Sati, Nimsada and Takli chana) of Wardha district which have been adopted for launching various development schemes. The volunteers interacted with the villagers in order to get acquainted with the basic problems which the people are facing in villages. Total 85 volunteers have participated in village survey programme.





उत्तर भारत अभियान - ग्रामीण सर्वेक्षण प्रपत्र



गांव की पहचान संख्या:

1. बुनियादी जानकारी

गांव का नाम	21 कड़ी-वडापी
ग्राम पंचायत	21 कड़ी-वडापी
गावों की संख्या	5
बसिंदों की संख्या	5
जमीन	देखी
जिला	वडापी
राज्य	पंजाब
लोक सभा / विधान सभा क्षेत्र	पंजाब
जिला मुख्यालय से दूरी	30 कि.मी.
गांव का क्षेत्रफल (एकर)	1544 एकर
कृषि योग्य भूमि क्षेत्र (एकर)	1487.5 एकर
वन क्षेत्र (एकर)	5 एकर
आवासीय/आबादी क्षेत्र (एकर)	25 एकर
जन विभागों के अंतर्गत क्षेत्र (एकर)	8 62.5 एकर
सामुदायिक भूमि क्षेत्र (एकर)	10 एकर
औसत प्रति व्यक्ति भूमि होल्डिंग (एकर)	1.32 एकर
अपशिष्ट भूमि (एकर)	4.08 एकर
पानी का स्तर (फीट)	30 फुट

2. गांव के बुनियादी ढांचे और बुनियादी सुविधाएं

ग्राम अवसंरचना/बुनियादी सुविधाएं/सेवाएं	गांव में स्थित (हां/नहीं)	संख्या	दूरी (की. मी.), यदि बाह्य स्थित है तो
प्राथमिक विद्यालय (सरकारी)	✓ हाँ	2	0 3110/3111
प्राथमिक विद्यालय (निजी)	नहीं	—	—
मिडिल विद्यालय (सरकारी)	✓ हाँ	1	3110/3111
मिडिल विद्यालय (निजी)	नहीं	—	— 02 km
माध्यमिक विद्यालय (निजी)	नहीं	—	— 0 km
माध्यमिक विद्यालय (सरकारी)	नहीं	—	— 20
आईटीआई/टिपिनोमा संस्थान (सरकारी)	नहीं	—	— 9 km वाजपति
आईटीआई/टिपिनोमा संस्थान (निजी)	नहीं	—	— 20
महाविद्यालय (सरकारी)	नहीं	—	— 9 km वाजपति
महाविद्यालय (निजी)	नहीं	—	— 9 km वाजपति
बैंक / एटीएम	नहीं	—	— 9 km वाजपति
प्राथमिक स्वास्थ्य केंद्र	नहीं	2	9.40 कि.मी. वाजपति
मिडिल अस्पताल	नहीं	—	— 20 km
स्वयं सेवी सभाएं	नहीं	—	—
डाकघर	नहीं	—	— 4 कि.मी. वाजपति
बैंग एजेंसियां	नहीं	—	— 4 कि.मी. वाजपति
प्रशिक्षण केंद्र (निर्दिष्ट करें)	नहीं	—	— 20
विजनी कार्यालय	नहीं	—	— 4 कि.मी. वाजपति
आंगनवाड़ी केंद्र	✓ हाँ	2	3110/3111
गांव में पेट्रोल पंप	नहीं	—	— 4 कि.मी. वाजपति
किमान सेवा केंद्र	नहीं	—	— 9.40 कि.मी. वाजपति
कृषि मण्डी	नहीं	—	— 5 km
किराया मुक्त दुकान	✓ हाँ	—	— 0
दुग्ध सहकारी/संगठन केंद्र	नहीं	—	— 3 कि.मी. वाजपति
रेलवे स्टेशन	नहीं	—	— 30 कि.मी. वडापी
बस स्टॉप	नहीं	—	— 9.40 कि.मी. वाजपति
पशु चिकित्सा देखभाल केंद्र	नहीं	—	— 3 कि.मी. वाजपति
खेल सुविधा/क्रीडा स्थल	नहीं	—	— 2
सामुदायिक स्वास्थ्य परिषदों की संख्या	हाँ	2	— 5

31/10/21



उन्नत भारत अभियान - ग्रामीण सर्वेक्षण प्रपत्र



3. ग्राम संपर्क (सड़कें)

नजदीकी राजमार्ग से गांव की दूरी/प्रमुख जि. प. रोड (कि.मी. में)	2 Km ✓
क्या पक्की सड़क से गांव जुड़ी है?	हाँ/जी
यदि हां, तो एग्रीच रोड का व्यौरा i) सड़क की नंबर (कि.मी. में) ii) निर्माण का वर्ष iii) योजना जिसके अंतर्गत बनवाये गये iv) वर्तमान स्थिति (पूर्ण/अपूर्ण)	1. 340 कवाफायती काणाय 2. 2017 3. PWD 4. ✓
मांथरिक सड़कों की लंबाई (गांव के अंदर/ बगिचां)	कवा (कि.मी.) पक्का (कि.मी.) कुल (कि.मी.)
परिवहन का माध्यम क्या उपलब्ध है?	हाँ/ हाँ/अपु/अपु, निरिंट करे ✓
परिवहन के उपलब्ध माध्यम की आवृत्ति	अक्सर/ कभी कभी/किस दो बार एक दिन में/ इसके अतिरिक्त

4. भूमि, वन एवं बागवानी प्रोफाइल

जंगल का प्रकार (अरक्षित/सुरक्षित/धुना)	पुष्प
सामुदायिक वन (एकड़)	18.72 एकर
सरकारी वन (एकड़)	5 एकर
मुख्य वन पेड़ और झाड़ी/प्रास प्रजातियां	
मुख्य औपश्रीय पौधे	कटुखिल, करज, पेठ, आलुदा, आंकाज इतर
ऊर्जा वृक्षारोपण (यदि हां, तो प्रजातियों और क्षेत्र बताए) (मीर्ष 3)	प्रजातियां
	क्षेत्रफल (एकड़)

5. सामान्य गांव में बिजली की जरूरतें

क्रम संख्या	समुदाय स्थान	* बिजली के उपकरण (कोटिंग के साथ संख्या लिखें)	आपूर्ति अवधि (घंटे में) (संख्या के साथ आवेदन कोड लिखें घंटे के साथ)
1.	पंचायत कार्यालय	1 (4), 2(2), 3(1)... (लभूता)	1 (8), 2(4), 3(5)... (लभूता)
2.	औषधालय	-	-
3.	समुदायिक भवन	-	-
4.	स्ट्रीट लाइट	① LED ② 20 ✓	①
5.	धर्मशाला	-	-
6.	सांसाजिक संगठन (धुवा/महिता मंडलों)	-	-
7.	प्रशिक्षण और उत्पादन केंद्र	-	-
8.	अन्य	-	-

* बिजली के उपकरणों: 1- सीएफएल/LED-बल्ब(20) ट्यूब लाइट(W), -2 Fan (70W), -3 डेजर्ट कूलर (150JW), -4 टी वी (150JW), -5 फ्रिज (220JW), -6 म्यूजिक सिस्टम (100JW), -7 इलेक्ट्रिक मोटर पंप (750JW), 8-हीटर (1000W), 9- इलेक्ट्रिक ज्वलन (1000W), 10-एयर कंडीशनर

टिप्पणियां, यदि कोई हो: ① सार्वजनिक शौचालय ② पक्की चूल्हा घूने, पक्की रसद का कठोर दिमाग
गांव में बिजली स्ट्रीट लाइट 2 पोलोका सुहाय होना चाहिए

सर्वेक्षक
प्रमिला पं. भोगाडे
(नाम और हस्ताक्षर)

बिजली की आवृत्ति
सर्वेक्षण की तारीख
11/2/2018



Shiksha Mandal's
Bajaj Institute of Technology
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Implementation of 1 KW Solar Panel through Unnat Bharat Abhiyan



सूचना का
अधिकार

Dr N Saravana Kumar, IAS
Joint Secretary (ICC/P)
Tel.: +91-11-23071486
Fax: +91-11-23071487
E-mail: saravana.kumar@gov.in

भारत सरकार
मानव संसाधन विकास मंत्रालय
उच्चतर शिक्षा विभाग
शास्त्री भवन
नई दिल्ली - 110 115
GOVERNMENT OF INDIA
MINISTRY OF HUMAN RESOURCE DEVELOPMENT
DEPARTMENT OF HIGHER EDUCATION
SHASTRI BHAVAN
NEW DELHI-110 115

D.O. No.5-1/2016-UBA

Dated: 20th July, 2018

Dear District Collector,

As you may be aware, UNNAT BHARAT ABHIYAAN is a flagship programme initiated by Government of India with the objective to engage reputed Higher Educational Institutions (both central and state; public and private) to understand and work in rural areas. As of now, 750 reputed institutions have been selected on a challenge mode. With the intention of enriching rural India, these selected institutions are expected to customise the available technologies or develop new technologies as per the local needs and also to improve the implementation of existing government programmes.

The details of the selected Higher Educational Institute(s) in your district, along with the selected 5 villages and also the contact details of Project Coordinator of the said institute(s) are attached herewith.

I request you to facilitate the works of the selected Institute(s) in the identified villages, through following interventions:

1. Facilitate meeting of Project Coordinator with all concerned stakeholders like Gram Panchayats, BDOs, District Development Authority etc.
2. Your guidance to the selected Institute(s), with regard to the needs of the district/ selected villages;
3. Mobilisation of funds from district administration or other sources to the Institute, if possible, in accordance with the activities under UBA.
4. Time to Time review under your leadership.

In this regard Secretary, Higher Education has also requested for facilitation vide D.O. No 5-1/2016-UBA dated 16-4-2018.

IIT, Delhi is the National Coordinating Institute for the implementation of Unnat Bharat Abhiyan. For any clarification, your office may contact IIT Delhi (unnatbharatabhiyanidd@gmail.com) / 011-26591157/26596451 or the undersigned.

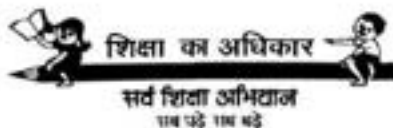
Thanking you,

Yours sincerely,

(N Saravana Kumar)

Enclosed: As above

Copy To :- Secretary, Higher Education of all States/UT's.





COLLECTOR OFFICE, WARDHA
CIVIL LINE, WARDHA (MAH)- 442001

TEL NO : 07152- 240102
FAX NO : 07152- 240533
No. dpo/wardha/Ws-2J2018

WEB :www.wardha.nic.in
E-mail collector.wardha@maharashtra.gov.in

Dated : 27 November,2018

To,

The Joint Secretary (ICC/P)
Ministry of Human Resource Development
Department of Higher Education
Govt. of India
Shastri Bhavan,
New Delhi- 110115

Subject :- Consent of facilitation for 'Unnat Bharat Abhiyan' participation
of Bajaj Institute of Technology, Wardha.

Reference :- Your letter No. 5-1/2016-UBA dated 20th July 2018

Sir,

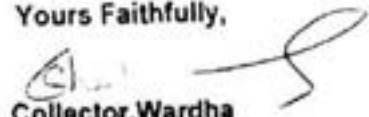
With reference to the subject cited above and the reference letter mentioned,
it is consented from our office that we will facilitate Bajaj Institute of Technology, Wardha
in their works for 'Unnat Bharat Abhiyan'.

The Institute is consented to work for the upliftment of following five villages
in the Abhiyan, viz :- (1) Takli (Chana) (2) Nimsada (3) Mamdapur (4) Sati (5) Bhaiyapur

This office assures the required help to the Institute for the successful
conduction of works under 'Unnat Bharat Abhiyan'.

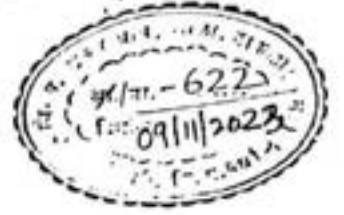
With warm regards.

Yours Faithfully,


Collector, Wardha
Maharashtra.

Copy to : Principal Bajaj Institute of Technology, Wardha.

जि.प.उच्च प्राथमिक शाळा, टाकळी (ब.)
केंद्र-गिरोली, पं. स. देवळी, जि. वर्धा
U-DISE No. 27080304801



To,

The Principal
Bajaj Institute of technology,
Pipri Meghe, Wardha.

sub : Testing Report of solar power system installation.
R/sir.

The above subject are informed that the installation of solar power system provided by our organization at Z.P. Upper primary school Taklichana has been completed the final work of electric meter installation and testing through the agency of "Subtropical renewable Pvt. Ltd. Nagpur".

All installation work and testing of solar power system is found to be correct.

For submission of certificate on above subject to your service.

Thanking you.

Date : 09/11/2023

मुख्याधिकारी
जि. प. उच्च प्रा. शाळा, टाकळी (बता)
पं. स. देवळी, जि. प. वर्धा



Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Environment Protection

- Students planted many trees inside & outside the campus and ensure its nurturing.
- Preserve Planet Earth Program
- Cleaning of Dham River activity.
- Awareness campaign against use of plastics in Wardha for Environment preservation.



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Web Site: www.bitwardha.ac.in, Email : bit@bit.shikshamandal.org



Report on Tree Plantation

The National Service Scheme (NSS) unit of the institute had organized the event of Tree Plantation on 24th Sept 2022 in Pipri village outside of the campus on the Occasion of “NSS Day”. Trees are the foremost source for producing the oxygen in environment, they helps to reduce the level of CO₂. As we all know that the whole world is facing the problem of global warming, loss of biodiversity and to recover from such problems planting the trees is become one of the most important aspects today.

The event was begun with the welcome speech by the Principal, Dr. Narendra M. Kanhe. He addressed the volunteers and staff about the role of trees in human life. He also advised the volunteers to think differently for the society, to make positive changes and improvement in environmental issues. He also mentioned that we should take outmost care of environment.

After the inspirational words of Principal Sir and NSS officer, we all move towards the place where tree plantation took place. A very first tree plant by Principal Dr. Narendra Kanhe and then other Teaching and Non- Teaching staff also plants tree. Total tree planted by all others including teachers, volunteers was more than 60 on the day.

Glimpses of the event are as follows:



(Signature)

PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA



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Preserve Planet Earth Programme

On **April 22nd, 2022**, Rotaract Club of Bajaj Institute of Technology conducted an event as a part of its "Preserve Planet Earth Programme" at ShriKrishnadas Jajoo Gramin Seva Mahavidyalaya featuring an expert lecture by, Dr. Narendra Kanhe, Principal Bajaj Institute of Technology, Wardha. The event aimed to raise awareness about environmental conservation and sustainable practices, aligning with the global efforts to address climate change and protect the planet.

This was a thought-provoking lecture on the current state of the environment, emphasizing the urgent need for collective action to address pressing environmental challenges. His presentation covered a wide range of topics, including climate change, deforestation, pollution, and the importance of biodiversity conservation. Dr. Kanhe provided a comprehensive overview of climate change, explaining its causes and highlighting the adverse effects it has on ecosystems, weather patterns, and global temperatures. He stressed the importance of mitigating greenhouse gas emissions to curb climate change. He also delved into sustainable practices that individuals, communities, and industries can adopt to minimize their environmental footprint. He discussed the significance of renewable energy, waste reduction, and responsible consumption in building a sustainable future. Around 55 students, and staff of ShriKrishnadas Jajoo Gramin Seva Mahavidyalaya attended the program. Rotaractors of Bajaj Institute of Technology administered the oath to the participants for contemplating the steps to “Preserve Plant Earth” on this occasion.




Dr.N.M.Kanhe
Principal
PRINCIPAL
Bajaj Institute of Technology
PIPRI, Wardha



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River Cleaning Drive

The River Cleaning Drive was conducted on the occasion of World Environment Day by the National Service Scheme (NSS) unit and Energy and Environment Cell of Bajaj Institute of Technology (BIT), Wardha. The event was held on **5th June 2023**, from 7:30 AM to 10:00 AM, and active participation was seen from students, faculty members, and the respected Principal of the institute, Dr. N. M. Kanhe.

The primary objective of the River Cleaning Drive was to raise awareness about environmental conservation with a specific focus on the importance of preserving our rivers, thereby promoting a sustainable environment. The event was initiated with a briefing session conducted by Principal Sir. Insights were provided regarding the significance of World Environment Day, the importance of river conservation, and the specific tasks that were to be carried out during the drive.

A total of 45 enthusiastic volunteers and students from various departments of BIT actively took part in the drive. Their dedication and commitment to environmental preservation were commendable. Additionally, esteemed faculty members and the Principal of BIT actively supported and guided the participants throughout the event.

The participants were equipped with necessary cleaning tools such as gloves, bags, nets. They worked together in teams, targeting different sections along the riverbank. The focus was on collecting and properly disposing of waste materials, including plastic waste, bottles, wrappers, and other non-biodegradable items.

Photographs of the event:



TheHitavada
Vidarbha Line | 2023-06-06 | Page- 6
ehitavada.com

BIT holds 'Clean Dham River' drive

■ District Correspondent
WARDHA, June 5

NATIONAL Social Service (NSS) unit of Bajaj Institute of Technology (BIT) conducted 'Clean Dham River' activity on the occasion of World Environment Day on Monday.

NSS volunteers and other students gathered early in the morning at Dham river, Pavnar, along with faculty members and non-teaching staffers and collected plastic bottles, polythenes and other waste materials floating in the Dham river. Around 20 bags of waste material was collected.

It may be noted that all the waste collected will be dispose by the municipality.

BIT students have also formed an 'Energy and Environment Cell' which works for the cause of reducing environmental pollution and creating awareness among people for protecting the environment. Later, a 'plastic free and clean campus' drive was also conducted by students and faculty members of the Institute.

Vikas Ravekar Asst Prof in Civil Engg and NSS Programme Officer organised the activities. Asst Professors Abhishek Kinhekar, Mandar Gupte, Dr Vikas Thakur, Dr Nikhil Soboni, Ram Wanare, Urvashi Pote, Kinjal Patel and Admin Officer Parag Kombe provided valuable support.

Dr Narendra Kanhe, Principal of BIT was also present at Dham river Pavnar. He motivated the students and asked them to work for the cause of conservation of natural resources, reducing environmental pollution and avoiding use of polythenes and plastics. Sanjay Bhargava, Chairman of Shiksha Mandal, appreciated the concern and initiative of the students and faculty members.

Students and faculty members during Clean Dham River drive.

PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA



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Drive on “Say No to Plastic Bag”

The National Service Scheme (NSS) unit of the institute had organized the event of Jute bag distribution on 5th June 2022 at different locations in Wardha City like Arvi Naka, Aarati Talkies, Gol Bazar on the Occasion of “World Environment Day”.

The event begun with the welcome speech by the Principal, Dr. Narendra M. Kanhe. He addressed the volunteers and staff about the importance of Use of Non - Plastic bag in day-to-day life. He also advised the volunteers to think differently for the society, to make positive changes for protection of environment. He also mentioned that we should take utmost care to reduce pollution.

Later, NSS Volunteers distributed jute bags to the public for reducing the use of plastic. Teaching and Non- Teaching staff also distributed bags with students. Total 500 hundred bags were distributed by NSS volunteers and staff on the day.

Prof. Vikas Ravekar, NSS Programme officer coordinated the event. NSS Volunteers and teaching and No – Teaching staff attended the event.

Photographs of the event:





Prof. Vikas Ravekar
NSS, Programme Officer

PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA

Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Women Oriented Activities

- Health & hygiene awareness drive.
- A hemoglobin check-up camp was organized.
- Adolescence & women problems seminar was conducted.
- Celebration of Women's Day



Shiksha Mandal's

Bajaj Institute of Technology

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Report on Health and Hygiene Drive

The Rotaract Club of Bajaj Institute of Technology organized a comprehensive "Health and Hygiene" campaign for the students of Daulatsingh Vidyalaya in Wardha on **29th June, 2023**. The primary aim of the initiative was to promote awareness about health and hygiene practices among school children, fostering a sense of well-being and instilling lifelong habits for a healthier future.

The campaign unfolded at the Daulatsingh Vidyalaya premises, with active participation from Rotaract Club members and enthusiastic students. The Rotaract Club organized interactive workshops covering topics such as handwashing, Nail Cutting, Hair Cut and the importance of a balanced diet. Practical demonstrations on proper handwashing techniques and nail-cutting care were carried out to make the learning experience more tangible for the students. The hands-on approach allowed the children to actively participate and practice the habits being taught.

This gesture aimed to empower the students with the tools and knowledge necessary to maintain personal hygiene practices. The Rotaract Club of Bajaj Institute of Technology's "Health and Hygiene" campaign at Daulatsingh Z.P. School was a commendable initiative, successfully contributing to the well-being of the students. By combining education with practical demonstrations and interactive activities, the campaign not only imparted crucial knowledge but also inspired positive behavioral changes.




Dr. N.M. Kanhe
Principal
PRINCIPAL
Bajaj Institute of Technology
Wardha, Wardha



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Web Site: www.bitwardha.ac.in, Email : bit@bit.shikshamandal.org



Report on “Health Check Up Camp”

The National Service Scheme (NSS) unit of Bajaj Institute of Technology, Wardha organized the “Health Check Up Camp” for girl students and female staff on **08th June 2023**.

The camp aimed to promote health awareness among the participants and provide them with professional medical care. The camp was conducted in collaboration with the doctors from Mahatma Gandhi Ayurved College, Hospital & Research Centre (MGACHRC), Sawangi Meghe, Wardha.

The purpose of the Health Check-up Camp was to create awareness among the girl students about the significance of maintaining good health and encourage them to prioritize their well-being. Principal of Institute, delivered a keynote address, emphasizing the importance of health awareness in girls. The talks covered topics such as nutrition, mental health, hygiene and exercise, providing valuable insights and guidance to the participants.

The event witnessed the participation of a total of 120 girl students from various disciplines and academic years. The NSS unit meticulously organized the logistics and ensured a smooth execution of the camp. Dr. Deepika Chakole and her team from MGACHRC, Wardha volunteered their time and expertise to examine the participants. The doctors conducted a comprehensive health check-up included measurements of vital signs such as blood pressure, heart rate, height, weight and body mass index, respiratory check, PCOS/PCOD (Exclusively for Females). The doctors also conducted general physical examinations and addressed any specific health concerns raised by the students.

Photographs of the event:



PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA



Shiksha Mandal's

Bajaj Institute of Technology,

Pipri - Wardha

Post Box. No. 25, Pin code: 442001

DTE Code:4649, Phone : 07152- 295473, Email ID : bit@bitwardha.ac.in.

Ref.No:-

Date: 31 / 03 / 2023

Notice

This is to inform all the girl students of BIT that online session on 'Menstrual Hygiene Training' for girls is scheduled as under by Women Welfare Cell, BIT. The session will be conducted by Ms. Roshnee Bhowmick and Mrs. Nitya Chaudhary, CSR Executive(s) Unicharm India, a leading Japanese firm in India, existing in the market with the names of Sofy and Mamypoko pants in collaboration with Global Hunt Foundation.

Sl.No	Attendees	Speaker Name	Date	Timings	Google Meet
1	1 st year girl students	Roshnee	01.04.2023	4:00 pm - 5:00 pm	https://meet.google.com/pvo-ovid-oiz
2	2 nd year girl students	Nitya	03.04.2023	4:00 pm - 5:00 pm	https://meet.google.com/rah-jauo-fsz
3	3 rd year girl students	Roshnee	04.04.2023	4:00 pm - 5:00 pm	https://meet.google.com/teo-akjh-nqk
4	4 th year girl students + female staff members	Nitya	05.04.2023	4:00 pm - 5:00 pm	https://meet.google.com/wab-guky-jcf

Attending the above session is mandatory for all girl students. E- certificate will be provided by the firm for the same.


Mrs. Naina Jagyasi

Coordinator


Dr. Snehal Pachpor

Head Women Welfare Cell


Dr. N. M. Kanhe

Principal

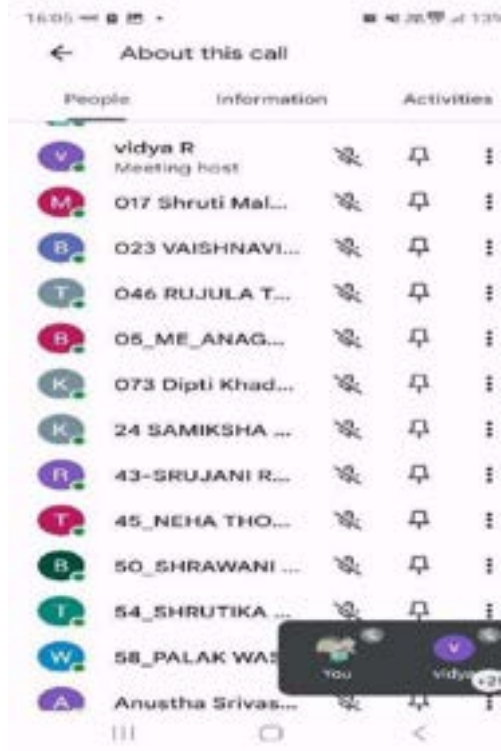
Shiksha Mandal's
Bajaj Institute of Technology, Wardha
(Affiliated to DBATU, Lonere, Raigad, Maharashtra)

Online session on 'Menstrual Hygiene Training' for all the girl students of BIT was scheduled as under by Women Welfare Cell, BIT. The session was conducted by Ms. Roshnee Bhowmick and Mrs. Nitya Chaudhary, CSR Executive(s) Unicharm India, a leading Japanese firm in India, existing in the market with the names of Sofy and Mamypoko pants in collaboration with Global Hunt Foundation.

For 1st year girl students Ms. Roshnee Bhowmick gave the seminar on wednesday, 01/04/2023 from 4:00 pm to 5:00 pm on women's hygiene and myths about menstrual healths , measures to have good menstrual health and also precautions to be taken during menstrual cycle.

For 2nd year girl students Mrs. Nitya Chaudhary gave the seminar on thursday, 02/04/2023 from 4:00 pm to 5:00 pm on women's hygiene and myths about menstrual healths , measures to have good menstrual health and also precautions to be taken during menstrual cycle.

For 3rd and 4th year girl students Ms. Roshnee Bhowmick gave the seminar on friday, 03/04/2023 from 4:00 pm to 5:00 pm on women's hygiene and myths about menstrual healths , measures to have good menstrual health and also precautions to be taken during menstrual cycle.



Dr. N. M. Kanhe

**Principal
PRINCIPAL**

Baja Institute of Technology
PIPRA, Wardia



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“Women Health Issues and Ayurveda”



The National Service Scheme (NSS) unit of the institute had organized the Guest Lecture on 08th March 2023 in College campus on the Occasion of “International Women’s Day”. The event was begun with the welcome speech by the Principal, Dr. Narendra M. Kanhe. He addressed the volunteers and staff about the role of women in our society. He also advised the volunteers to think differently for the development, empowerment of the women in our society.

The session continued with an inspirational talk by Dr. Mayuri Deshpande, (Assistant Professor, MGACHR) on the topic of “Women’s Health Issues and Ayurveda”. While delivering the lecture, the guest speaker Dr. Mayuri Deshpande focused on prevention and treatment of various diseases in women. She also stressed on health awareness among the women during her speech. She also talked about various major health issues faced by women like PCOD, Anaemia, Obesity, post-menopausal syndrome, infertility and suggest some measures and treatments for the same. Women keep on neglecting their health, which results in more serious illnesses,” she said. She also pointed out the importance of being a strong woman in the society.

Photograph of the event:





 National Service Scheme
Shiksha Mandal's
Bajaj Institute of Technology, Wardha 


Expert Lecture
on


Women's Health Issues and Ayurveda

By
Dr. Mayuri Deshpande

**Date: 08th March
2023**

Time: 12.30 PM



 #NOTMEBUTYOU


Prof. Vikas Ravekar
NSS, Programme Officer
PROGRAMME OFFICER
National Service Scheme (NSS)
Bajaj Institute of Technology,
WARDHA



Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Education

- Faculty imparted science and technology education expertise to Bajaj Science Centre Kids & other Institutions.
- ICT enabled education to school children of Z.P. schools.



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Bajaj Institute of Technology, Wardha

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Doc. No.: BITACAD/COMP/2021-22/Odd/Workshop/01

Department of Computer Engineering
Activity Report

Shiksha Mandal's BIT, Wardha	Workshop			Page	1 of 5
				Prepared on	June, 2022
Academic Year	2021-2022	Class	9th & 10th	Semester	9th & 10th standard
Event Name / Title	2-day Workshop on Python Programming for the students of Bajaj Science Center				
Date :	3 rd & 4 th June 2022	Duration	2 days		
Experts name and designation	Amit Manakshe, Asst. Prof., Department of Computer Engineering, BIT, Wardha.				
Faculty In-charge:	Prof. Amit Manakshe	Total No. of Beneficiary:	19		

Event details:

About the Speaker	Mr. Amit Manakshe, Asst. Prof., Department of Computer Engineering, BIT, Wardha has 11.5 years of teaching experience in Computer Science & Engineering. With 1.3 years of industrial experience. His area specialization is Theory of Computation, Compilers, Algorithmic, and Programming Languages. Sir has published 12 research papers in International Journals with 06 International Conferences and 05 papers in National Conferences.
About the event	A 2 day workshop was conducted for 9 th and 10 th Standard students of Bajaj Science, Wardha. For imparting python programming essential to leverage the programming skills in High School students. The main objective of the 2 day workshop was to enlighten the coding practices and basic know-how of the modern day programming language. This 2 day basics of python helped students to put forth a comprehensive programming perspective.

Appendix A: Enclosures

1. Proof of the activity - Pics, attendance sheet, emails sent, video link
2. Content shared by the guest /expert

Document No	Prepared on	Revised on	Prepared By	Approved By
Doc. No.: BITACAD/COMP/2021-22 /Even/Workshop/01	16/04/21	06/06/22	MDP	Dr. N.M. Kanhe Principal



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Doc. No.: BITACAD/COMP/2021-22/Odd/Workshop/01

1. Proof of the activity - Pics, attendance sheet, emails sent, video link

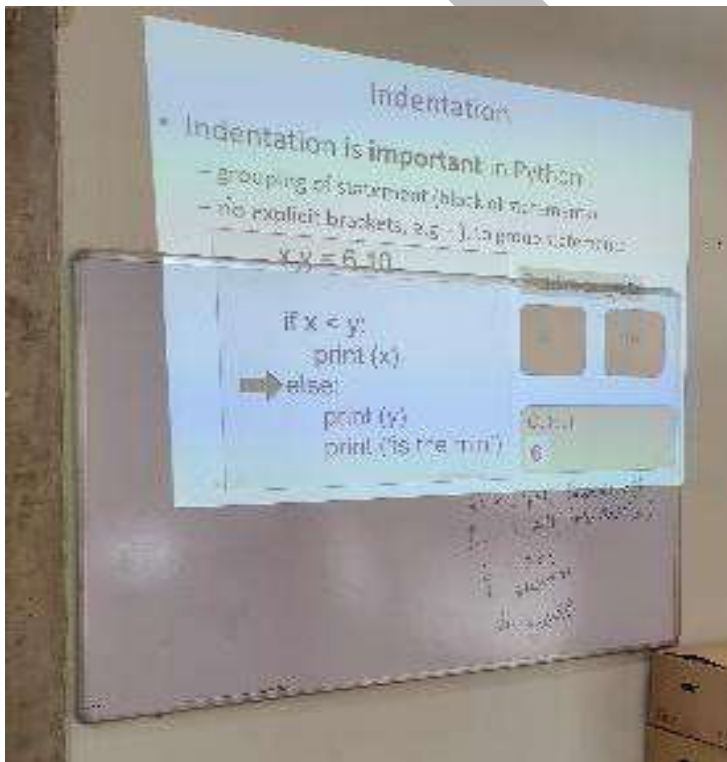
Attendance:

https://drive.google.com/file/d/1rn-j--sJRm0X5t9wDDlm80hYOoYiXgSp/view?usp=share_link

Glimpses:



Content shared by the guest /expert



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Shiksha Mandal's Bajaj Institute of Technology, Wardha

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13	Drishti Mohnani	Bhavan's Lloyds Vidya Niketan	10 th	10 / 10
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15	Bhumika Kathane	Bhumika Kathane	10 th	9 / 10



Prepared By
(Portfolio In-charge)



Approved By
(Head of Department)

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Document No	Prepared on	Revised on	Prepared By	Approved By
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Gandhi Gyan Mandir's
BAJAJ SCIENCE CENTER

Gandhi Gyan Mandir's-Regd. No. E-36, Wardha
(A place to think and a place to do)

To,

Mr. Amit Manakshe,
Assistant Professor,
Bajaj Institute of Technology,
Wardha.

Letter of Appreciation

We take this opportunity to express our sincere thanks and gratitude for conducting the workshop on the topic "Python Programming" held on 3rd and 4th June 2022 at your institute for our students.

Your practical know-how was beneficial to the students of Bajaj Science Center. We hope that the students will find more learning opportunities and will learn more in the Python Programming workshop.

Thanks for guiding our students through your expert session. Hope the cooperation continues in future too.

 
WARDHA: Dr. S. P. Bitwas
(Director)



Shiksha Mandal's
Bajaj Institute of Technology
(Approved by AICTE, and affiliated to Dr. Babasaheb Ambedkar Technical
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Report on ICT Education

On **April 27, 2023**, Bajaj Institute of Technology in Wardha organized a comprehensive workshop on Information and Communication Technology (ICT) for students from Pipri Zilla Parishad. The event aimed to provide students with a deeper understanding of the latest advancements in ICT and how it can be leveraged for personal and professional growth.

The workshop featured distinguished faculty from the Department of Computer Engineering. Their insights and experiences added depth to the discussions, providing students with a real-world perspective on the application of ICT in different domains. The workshop included interactive Q&A sessions, and group discussions to encourage active participation and engagement. This allowed students to share their thoughts, ask questions, and exchange ideas with both the speakers and their peers. The workshop covered a diverse range of topics within the realm of ICT, including: Definition and Scope of ICT, Evolution and Historical Perspective, Key Components of ICT: Hardware and Software, Networks and Connectivity.

The Information and Communication Technology workshop organized by Bajaj Institute of Technology, Wardha, proved to be a valuable and enlightening experience for the Pipri Zilla Parishad students. It enhanced their understanding of ICT concepts and inspired them to consider future careers in the rapidly evolving field of technology. The success of this workshop underscores the importance of such initiatives in bridging the digital divide and preparing students for the challenges of the modern world.





Shiksha Mandal's

BAJAJ INSTITUTE OF TECHNOLOGY, PIPRI, WARDHA

Other Activities

- Structural audit conducted for temples in the community.
- Supervision of repair work of “Saldara Zilla Parishad School” at Wardha.
- Supervision of repair work of “Kachnur Zilla Parishad School” at Wardha.



Shiksha Mandal's

Bajaj Institute of Technology, Wardha, Maharashtra, India

बजाज प्रौद्योगिकी संस्थान, वर्धा, महाराष्ट्र, भारत

Approved by All India Council for Technical Education (AICTE) India and Director of Technical Education (DTE), Maharashtra

Affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, Raigad, Maharashtra

STRUCTURAL AUDIT REPORT

“Motha Maruthi Devasthanum”

Kanhapur, Selu,

Wardha

Maharashtra.

September,

2022

The building is an RCC framed and partially load-bearing structure. The building is around 36 years old. Several structural members show deterioration/distress due to negligence towards maintenance, leakages, vegetation growth and corrosion. The front cantilever slab (Chhajja) should be demolished due to spalling of the concrete cover. Signs of distress like spalling / crushing of columns.

Prepared by:

**DEPARTMENT OF CIVIL
ENGINEERING**

**BAJAJ INSTITUTE OF
TECHNOLOGY, WARDHA**

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1.0 INTRODUCTION

Department of Civil Engineering, Bajaj Institute of Technology, Wardha, was entrusted with the structural audit of “Motha Maruthi Devasthanum” Kanhapur, Selu, Wardha, Maharashtra and also to prepare the report for the same.

Two visits were conducted to assess the structure. First, the structure was assessed based on the visual inspection and the results of the Non-Destructive Test (Rebound Hammer and Ultrasonic Pulse Velocity) carried out on 28th September 2022.

A structural Audit is an essential tool for assessing the structural health of buildings. The Audit investigates and highlights all the risk areas and critical areas and decides the need for any immediate attention/action.

The purpose of Structural Audit is:

1. To save Lives & Property.
2. To know the building structure's health and estimate the residual life.
3. To assess the extent of distress that occurred due to concrete deterioration, corrosion of steel and any other reason and hence the residual strength of the structure and its fitness for rehabilitation.
4. Highlight the critical areas that need to be attended to with immediate effect.
5. To advise the concerned authority about the seriousness of the problems and the urgency required to attend to the same, if any...
6. Selecting and planning the effective remedy.

2.0 SITE LOCATION



Fig 1: Motha Maruthi Devasthanum, Kanhapur, Selu, Wardha, Maharashtra

Courtesy: Google map

VISUAL INSPECTION AND CRITICAL OBSERVATIONS

Visual examination of structure is the most effective and qualitative approach to evaluate the structural soundness and identify the typical distress symptoms and associated problems. Based on our experience in condition assessment, structural audit and rehabilitation engineering, the symptoms of distress allow a sufficient understanding of the cause of distress as these are related to the structure's age.

It provides the following valuable information concerning its quality, structural serviceability and material deterioration mechanism. In addition, it gave a quick scan of the structure to assess its general health status.

2.1 Building common areas

1. One of the columns (C3) was distressed, and cracks were observed; steel jacketing was provided earlier.
2. Overall Condition of Plinth: Satisfactory
3. Settlement: No settlement in structural members has been observed.

Note: Even though no settlements in the foundation are specifically noticed, the same cannot be ruled out.

2.2 External faces

1. The building is an RCC-framed and partially load-bearing structure made of RCC columns, beams & slabs.
2. Spalling of cover concrete has been observed on the soffit of chajjas.

3. *The cantilever chajjas should be demolished for the safety of the occupants because of spalling of the concrete cover shown in figs 6 & 7.*
4. *The columns are observed to have major distresses, as shown in fig 5.*
5. *Columns are cracked, as shown in fig 5.*
6. *The vegetation growth (plants, roots, mould and mildew) was enormously observed on chajjas of the building.*

6.0 NON-DESTRUCTIVE TEST:

The test performed on the existing structure to check the current structural condition and material uniformity is visual inspection with Rebound Hammer Test, and Ultrasonic Pulse Velocity (UPV) was sufficient enough to assess.

6.1 Rebound Hammer Test

The test is performed as per guidelines given by IS: 13311 (Part 2): 1992 & BS 1881: Part 202: 1986 to estimate the in situ strength of concrete based on the correlation established between in-situ strength at the particular location & rebound numbers.

When the plunger of the rebound hammer is pressed against the surface of the concrete, a spring-controlled mass with constant energy is made to hit the concrete surface to rebound back. The extent of rebound, which is a measure of surface hardness, is measured on a graduated scale. This measured value is designed as Rebound Hammer (a rebound index). Concrete with low strength and stiffness absorbs more energy to yield a lower rebound value. The results are significantly affected by the following factors:

- a. Mix characteristics:
 - i. Cement type,
 - ii. Cement content,
 - iii. Coarse aggregate type:
- b. The angle of Inclination of the direction of a hammer with reference to horizontal
- c. Member characteristics:
 - i. Mass,
 - ii. Compaction,
 - iii. Surface type,
 - iv. Age, rate of hardening and curing type,
 - v. Surface carbonations,
 - vi. Moisture condition,
 - vii. Stress state and temperature

Comparison of Rebound numbers, which indicate the relative surface hardness of the concrete, will help to identify surface weaknesses in cover concrete and can be used to determine the relative

compressive strength of concrete. Locations possessing meagre rebound numbers will be identified as weak surface concrete. The following table gives guidelines for qualitative interpretation of rebound hammer test results concerning the quality as per the IS standards

Table – 1 Rebound Hammer Concrete Quality Grading

Average Rebound	Quality of Concrete
>40	Very good
30-40	Good
20-30	Fair
<20	Poor and/or delaminated
0	Very poor and/or delaminated

Steps to carry out Rebound Hammer Test:

1. The plaster is removed at test locations (patch of min 6”x6”).
2. The test location selected shall be smooth, clean, and dry without any defects like Honeycombing cracks and a hollow sound.
3. The patch is scrubbed with a carborundum stone to remove loosely adhered scales and remains of plaster mortar.
4. By holding the rebound hammer at right angles to the surface of the concrete member, 5 readings are taken with random distribution over the entire patch.
5. Of these readings, abnormally high & abnormally low results are eliminated & average of the balance readings is worked out.
6. Considering the factors influencing the hardness of the concrete surface, like moisture condition of the surface, carbonation, test location within the member, the direction of the test etc. corrected rebound number is worked out.
7. The apparent compressive strength of concrete against the corrected rebound number is obtained from the standard table.

6.2 Ultrasonic Pulse Velocity

An electro-acoustical transducer generates the ultrasonic pulse. When the pulse is induced into the concrete from a transducer, it undergoes multiple reflections at the boundaries of the different material phases within the concrete.

A series of ways are induced in concrete, which includes longitudinal (compression), shear (transverse), and surface (Rayleigh) waves. The transducer placed on another side detects fasted longitudinal waves.

The velocity of the ultrasonic pulse primly depends on the shape, size, and geometry of the concrete material through which they pass and depends only on its elastic properties. Therefore, this method is suitable for assessing the structural properties of concrete.

As per the ultrasonic pulse velocity principle, when concrete quality is good in density, homogeneity, and uniformity, it obtains higher velocity in concrete. On the other hand, if the concrete quality is poor, the velocity obtained is lower.

In case the concrete has cracked and voids inside, the strength of pulse velocity is reduced, and it passes around discontinuity, thereby following the longer path for travel. Consequently, lower velocities are obtained.

The velocity of the pulse depends on the concrete material or mix proportion. In addition, aggregate density and modulus of elasticity also significantly affected the pulse's velocity.

Any suitable type of transducer operating within the frequency range of 20 kHz to 150 kHz may be used. In addition, piezoelectric and magnetostrictive transducers may be used, the latter being more suitable for the lower part of the frequency range.

UPV test is performed on concrete as per **IS: 13311 (Part 1) – 1992**.

During the test, the transducer held in contact with one surface of concrete and it traversed a known path length Q in the concrete, and then an electrical signal passed the second transducer held in contact with the other surface of the concrete member and the transit time (T) of the pulse to be measured.

The pulse velocity (V) is given by:

$$V = L/T$$

Once the transducer discovers the path, the pulse velocity is transmitted at a right angle to the surface of the concrete to get the best result.

It is essential that pulse velocity propagated or transmission by the transducer is detected by receiving transducer. In addition, to ensure that they keep sufficient coupling between the concrete and the face of each transducer. Generally, copulates are petroleum jelly, grease, liquid soap, and kaolin glycerol paste.

If there is a very rough concrete surface, it is essential to smoothen it to place the transducer.

Table – 2 Velocity Criteria for Concrete Quality Grading

Sr. No.	Pulse Velocity by Cross Probing (Km / Sec)	Concrete Quality Grading
1.	Above 4.5	Excellent
2.	3.5 to 4.5	Good
3.	3.0 to 3.5	Medium
4.	Below 3.0	Doubtful

6.2.1 Results for the Rebound Hammer Test

Table 3: Rebound hammer test results

S.No	Column No	Internal/ External Column Reading	Rebound Number / Compressive strength (N/mm ²)					Avg. Comp. Strength N/mm ²	Directi o n of test	Remark (See Table-1)
			1	2	3	4	5			
1	C1	External	31/27	22/12	20/10	29/24	32/27	20	0 ⁰	Fair
2	C2	External	40/42	24/16	24/16	20/10	23/13	19.4	0 ⁰	Poor
3	C3	External	21/11	32/27	25/16	20/10	20/10	14.8	0 ⁰	Poor

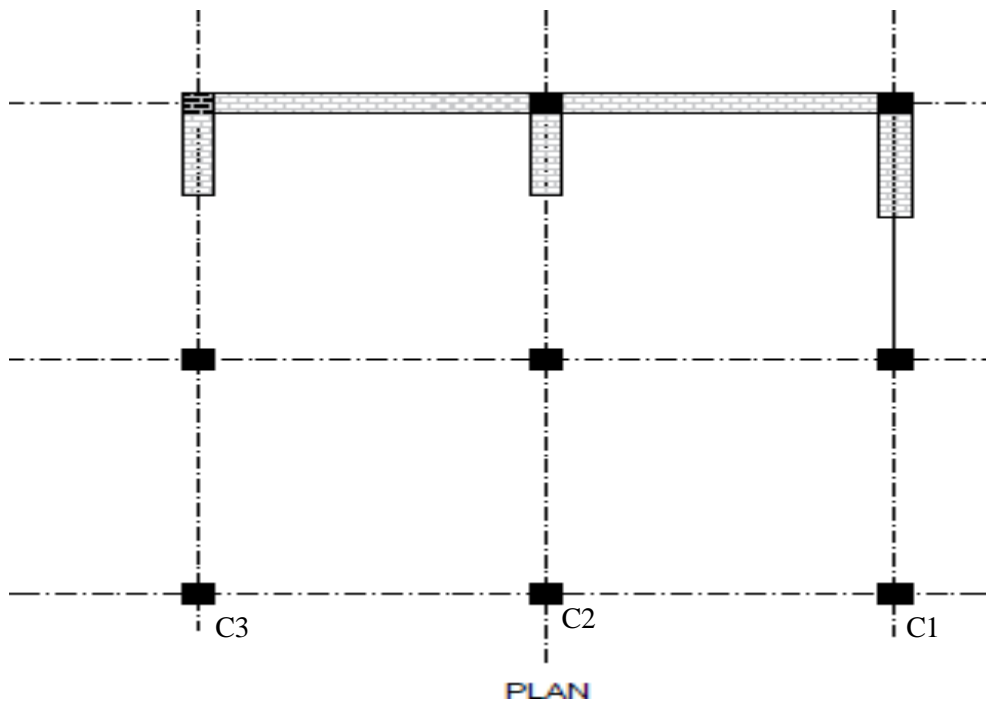


Fig 3: Plan view

6.2.2 Results for the Ultra Sonic Pulse Velocity

- Test results of UPV for all the **columns**

Table 4: Ultrasonic Pulse Velocity results for Columns

S.No	Column	Type	Length (Inch)	Length (L) (Km)	Time (T)	UPV (L/T) (Km/Sec)	Remarks (see Table 2)
1	C 1	Direct	11	0.000279	114.9	2.43168458	Doubtful
		Semidirect	7.7	0.000196	131.6	1.48617319	Doubtful
		Indirect	9	0.000229	131.6	1.73708554	Doubtful
2	C 2	Direct	11	0.000279	672.7	0.41534199	Doubtful
		Semidirect	7.7	0.000196	227.3	0.86045047	Doubtful
		Indirect	9	0.000229	112.3	2.03562295	Doubtful
3	C 3	Direct	11	0.000279	97.4	2.8685889	Doubtful
		Semidirect	7.7	0.000196	116.5	1.67880164	Doubtful
		Indirect	9	0.0002286	132.5	1.725286469	Doubtful

- All the columns showed doubtful signs of indication.
- Either the columns should be strengthened using any of the retrofitting techniques or demolished

7.0 DISTRESS MAPPING

Distress mapping has been carried out, and the following levels of distress are assigned to each of the building elements:

Levels of distress:

- D1 - Minor cracks to plaster.
- D2 - Minor cracks to the structural member and plaster cracks. D3 - Cover concrete of structural member Spalled in patches
- D4 - Cover concrete spalled & reinforcement exposed at a few locations.
- D5 - Cover concrete spalled & reinforcement exposed at a majority of locations.
- D6 - Structural member broken, cover concrete fallen & reinforcement broken also.
- D7 - Bulging of column/ sagging of beam/ sagging of slab.
- D8 - Leakages, dampness, seepage etc.

7.1 Sign Convention

The following signs are used to denote the level of distress in structural members.

- 1) Distress in beam or column with the level of distress.



e.g. Minor cracks to beam along with cracks to plaster denoted by (the numeric value denotes the level of distress)



- 2) Distress in slab



e.g. Cover concrete of slab delaminated



- 3) Distress in RCC elements other than Beams, Columns and Slab



7.2 External Surface:

External Faces:

1. Cracks are observed on the columns.
2. External plaster has bulged at some of the locations.
3. Spalling of cover concrete has been observed on the soffit of Chajjas.
4. Chajjas are entirely distressed.
5. Vegetation growth has been observed in the chajjas at many locations.

Staircase:

1. No staircase

8.0 CONCLUDING REMARKS

Visual examination of structure is the most effective and qualitative approach to evaluate the structural soundness and identify the typical distress symptoms and associated problems. Based on our experience in condition assessment, structural audit and rehabilitation engineering, the symptoms of distress allow a sufficient understanding of the cause of distress as these are related to the structure's age. It provides the following valuable information concerning its quality, structural serviceability and material deterioration mechanism. It quickly scanned the structure to assess its general health status.

The building named "Motha Maruthi Devasthanum" at Kanhapur, Selu, Wardha, Maharashtra, is a single-storied RCC framed and partially load-bearing structure. This building is an approximately 36-year-old temple.

- All the columns showed doubtful signs of indication.
- Either the columns should be strengthened using any retrofitting technique or demolished.
- Steel I section (ISMB150) should be placed at lintel level over columns C-1, C-2, C-3, C4 and C5.
- The cantilever chajjas should be demolished for the safety of the occupants because of spalling of the concrete cover.
- The vegetation growth (plants, roots, mould and mildew) was enormously observed on chajjas of the building.


9.0 PHOTOGALLERY



Fig 5: Column with major cracks



Fig 6 : Chajjas


Dr. V.M. Thakur
Faculty In-charge


Dr. Prathik Kulkarni
Structural Auditor-I


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HEAD
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Wardha



मोठा मारोती देवस्थान कान्हापुर ता.सेलु, जि.वर्धा

र.नं. A२३ वर्धा

भ्रमध्वनी क्रमांक : ९४२२१४४६८४



दिनांक : ०१/०६/२०२३

अध्यक्ष

श्री भुजंगराव पेटकर

सचिव

श्री रामकृष्णा पेटकर

कोषाध्यक्ष

श्री नुकाराम चुटे

सदस्य

श्री. नरहरी सातपुते

श्री. देवानंद येळणे

श्री. डॉ. ब्रजन सत्येकार

श्री. डॉ. अमोल येळणे

Completion Certificate

A task of structural audit of Motha Maroti devasthan, kanhapur, Seloo, Wardha was given to the Department of Civil Engineering, Bajaj Institute of Technology, Wardha. We are satisfied with their prompt services.

This is to certify that the structural audit of Motha Maroti devasthan was done successfully and received the report. We extend our gratitude towards department of Civil Engineering, of Technology, Wardha.

Thanks once again!

सचिव

श्री. रामकृष्णाजी पेटकर

अध्यक्ष

श्री. भुजंगराव पेटकर



Shiksha Mandal's

Bajaj Institute of Technology, Wardha, Maharashtra, India

बजाज प्रौद्योगिकी संस्थान, वर्धा, महाराष्ट्र, भारत

Approved by All India Council for Technical Education (AICTE) India and Director of Technical Education (DTE), Maharashtra

Affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, Raigad, Maharashtra

STRUCTURAL SUPERVISION REPORT

**“JANKI DEVI BAJAJ GRAM VIKAS
SANSTHA: SALDARA ZP SCHOOL”**

Wardha

MAY, 2022

Janki Devi Bajaj Gram Vikas Sanstha (JBGVS) have signed MOU with Zilla Parishad, Wardha to improve the quality of Saldara Zilla Parishad School in wardha district. Under it JBGVS is making major repair work to these schools. Contractors have been assigned but JBGVS lack manpower and expertiseto supervise these works. Department of Civil Engineering, Bajaj Institute of Technology, Wardha was entrusted the structural supervision of above mentioned

Prepared by:

**DEPARTMENT OF CIVIL
ENGINEERING**

**BAJAJ INSTITUTE OF
TECHNOLOGY
WARDHA**

Department of Civil Engineering, Bajaj Institute of Technology, Wardha was entrusted supervision of repair work of “Saldara Zilla Parishad School” at Wardha district, Maharashtra. Site visits once in a week were conducted to assess the school structure. The structure and repair work going on were assessed based on the visual inspection. Visual examination of structure is the most effective and qualitative approach to evaluate the structural soundness and to identify the typical distress symptoms together with the associated problems. Based on our experience in condition assessment, structural audit and rehabilitation engineering, the symptoms of distress allow a reasonably sufficient understanding of the cause of distress as these are related with the age of the structure.

GENERAL INFORMATION AND OBSERVATIONS:

1. Name of Structure : **Zilla parishad schools of Saldara**
2. Address : **Saldara Zilla Parishad School” Wardha district, Maharashtra**
3. Date of Inspection : Once in a week from 1st March to 30th April 2022
4. Age of Structure : Around 25 years
5. Mode of use : School from 1st to 10th standard
6. Level of Submersible : Moderate
7. Flood history : Nil

- 8 Observations : **Load bearing structure with bearing walls in poor state**

SUMMARY:

1. A wall which was in very poor state was suggested to replace with new 9 inch thickwall.
2. Old plaster was suggested to be screed out and fresh double layer of plaster was suggested.
3. Other small repairing work like plumbing system, bathroom shed and partition walls were carried out satisfactorily by the contractor.



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WIPAL, Wardha



J B G V S

JANKIDEVI BAJAJ GRAM VIKAS SANSTHA

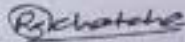
Registered as Society under Societies Registration Act, 1860 and a Public Trust Under the Bombay Public Trust Act, 1950

JBGVS/2022-23/53

date 31/03/22

Task Completion Certificate

Jankidevi Bajaj Gram Vikas Sanstha (JBGVS) have signed MOU with Zilla Parishad, Wardha to improve the quality of Saldara Zilla Parishad School in wardha district. Under it JBGVS is making repair work to these schools. Department of Civil Engineering, Bajaj Institute of Technology, Wardha was given the responsibility of the structural supervision of Saldara Zilla Parishad School. This is to certify that the above mentioned task given to the Department of Civil Engineering, Bajaj Institute of Technology, Wardha is successfully completed. Thanks!



Rajendra Kharche

(Team Leader)

Team Leader

*Jankidevi Bajaj Gram Vikas
Sanstha, WARDHA*

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Approved by All India Council for Technical Education (AICTE) India and Director of Technical Education (DTE), Maharashtra

Affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, Raigad, Maharashtra

STRUCTURAL SUPERVISION REPORT

**“JANKI DEVI BAJAJ GRAM VIKAS
SANSTHA: KACHNUR ZP SCHOOL”**

Wardha

MAY, 2022

Janki Devi Bajaj Gram Vikas Sanstha (JBGVS) have signed MOU with Zilla Parishad, Wardha to improve the quality of **Kachnur Zilla Parishad School in wardha district**. Under it JBGVS is making repair work to these schools. Contractors have been assigned but JBGVS lack manpower and expertise to supervise these works. Department of Civil Engineering, Bajaj Institute of Technology, Wardha was entrusted the structural supervision of above mentioned.

Prepared by:

**DEPARTMENT OF CIVIL
ENGINEERING**

**BAJAJ INSTITUTE
OF TECHNOLOGY
WARDHA**

Department of Civil Engineering, Bajaj Institute of Technology, Wardha was entrusted supervision of repair work of “Kachnur Zilla Parishad School” at Wardha district, Maharashtra. Site visits once in a week were conducted to assess the school structure. The structure and repair work going on were assessed based on the visual inspection. Visual examination of structure is the most effective and qualitative approach to evaluate the structural soundness and to identify the typical distress symptoms together with the associated problems. Based on our experience in condition assessment, structural audit and rehabilitation engineering, the symptoms of distress allow a reasonably sufficient understanding of the cause of distress as these are related with the age of the structure.


GENERAL INFORMATION AND OBSERVATIONS :

1. Name of Structure : **Zilla Parishad schools of Kachnur**
2. Address : **Kachnur Zilla Parishad School” Wardha district, Maharashtra**
3. Date of Inspection : Once in a week from 1st March to 30th April 2022
4. Age of Structure : Around 15 years
5. Mode of use : School from 1st to 10th standard
6. Level of Submersible : Moderate
7. Flood history : Nil
8. Observations : Water seepage from hall slab

SUMMARY:

1. A concrete layer of 50mm thick with murga zali was suggested and implemented to make the slab water proof.
2. Slope on shorter span of slab was provided to drain off the water quickly.
3. Other small repairing work like kitchen otta, bathroom tiles and bathroom shed, floor slope to drain off rain water were carried out satisfactorily by the contractor.




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JBGVS/2022-23/54 Task Completion Certificate

Date: 31/03/23

Jankidevi Bajaj Gram Vikas Sanstha (JBGVS) have signed MOU with Zilla Parishad, Wardha to improve the quality of Kachnur Zilla Parishad School in wardha district. Under it JBGVS is making repair work to these schools. Department of Civil Engineering, Bajaj Institute of Technology, Wardha was given the responsibility of the structural supervision of Kachnur Zilla Parishad School.

This is to certify that the above mentioned task given to the Department of Civil Engineering, Bajaj Institute of Technology, Wardha is successfully completed.

Thanks!

Rajendra Kharche

(Team Leader)

Team Leader

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