## **BACKWARD CLASS YOUTH RELIEF COMMITTEE'S**

# BHIWAPUR MAHAVIDYALAYA

BHIWAPUR DIST. NAGPUR- 441201 ACCREDITED WITH GRADE 'B' (CGPA-2.54) BY NAAC, BENGALURU ISO-9001:2015

### AFFILIATED TO RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

E-mail: bmv\_bhiwapur@yahoo.com; bgm.college1990@gmail.com Website: https://www.bmb.ac.in

Tel: 07106-232349

# DETAILED REPORT OF THE ACTVITY 2023-2024

	23-2024				
ACADEMIC SESSION	2023-2024				
NAME OF THE ACTIVITY	E-waste Management				
ORGANIZING	BHIWAPUR MAHAVIDYALAYA AND M/S. SURITEX				
INSTITUTION/COLLABORATIN	PVT. LTD., NAGPUR.				
G INSTITUTIONS					
CORE AREAS COVERED	Environmental Protection and Health				
	<ul> <li>Proper Disposal and Recycling of E-waste</li> </ul>				
	• Collaboration with Government-Authorized				
	Recycler				
	• Policy Implementation				
	• Community Participation				
	• Institutional Social Responsibility				
SCHEDULE	Academic Year 2023-2024				
VENUE	Bhiwapur Mahavidyalaya, Bhiwapur				
MODE OF ACTIVITY	Offline				
(ONLINE/OFFLINE					
(IF ONLINE, GIVE WEBLINK)					
ORGANIZING COMMITTEE	Committee for E-Waste Collection				
CHIEF COORDINATOR	Asst. Prof. Lt Dr. Yogesh More				
COMMITTEE MEMBERS	Asso. Prof. Dr. Madhukar Nandanwar				
	Asso. Prof. Rajesh Bahurupi				
	Asst. Prof. Dr. Aditya Sarwe				
BENEFICIARIES/TARGET	Educational Institutions, Government Offices, Shops,				
	Factories, Establishments, Students, Staff and				

GROUP	Citizens.
NUMBER OF STUDENTS/BENEFICIARIES	12
DETAILED REPORT OF THE ACTIVITY	Electronic Waste is the discarded electronics and electrical devices. It is one of the hazardous wastes. It has many hazardous effects on the environment and the health of the individuals. Improper E-waste processing in Developing Nations can lead to adverse human health effects and pollution in the environment. As the decomposition of electronic items takes a more prolonged and different methodology, it is advised to decompose it in scientific and eco-friendly manner. The recycling of E-waste serves a lot of useful purposes. For example, protecting human and environmental health by keeping those devices out of landfills. Recovering the parts within the devices that still have value and providing the manufacturers with recycled metal that can be used to make new products. In India, the Government, through the Ministry of Environment, Forest and Climate Change (MoEFC), released updated E-Waste Management Rules. International treaties like Basel Convention were aimed at lessening and regulating the movement of hazardous waste among countries.

collaboration with M/s. Suritex Pvt. Ltd., Nagpur, a

Recycler Government authorized E-waste recycling E-waste in a Scientific and Eco-friendly manner. On 2<sup>nd</sup> May, 2022 our College signed a Memorandum of Understanding (MoU) with M/s. Suritex Pvt. Ltd. For ensuring the proper disposal and the recycling of E-waste as per the safety norms set by the Maharashtra Pollution Control Board. Our College paid Rs. 15000/- exclusive of GST for Ewaste services. To implement the same, our Institution established E-waste Collection Centre under the Department of Physics. A Policy was designed to ensure the proper working of the Centre. As per the Policy, Request letters were issued to various Institutions, Government Offices and to individuals for providing the E-waste. Circulars were also displayed on the Notice Boards, appealing the students and the Staff members for providing Ewaste. College collected all sorts of E-Waste materials like Electrical and Electronic Appliances, Hardware IT and its consumables, Telecom Equipment and switches, Bio Medical Equipment and its spares, other Medical Devices, Power Chords, Cables, Wires, Chargers, Paper, Glass, Metal Scraps or any other device that runs on electricity/battery and provided it to M/s. Suritex Pvt. Ltd. We paid the Rs. 50/- for a piece of discarded monitor and CRT Display and Rs 10/- per kilogram for other items, against the total quantity of E-waste collected from the providers. College also issued Appreciation Letters to the providers for supporting the College in

this Noble Cause. During the Academic Session 2023-2024, College formed a Four Member Committee for monitoring and facilitating the E-Waste Collection. A special E-Waste Collection Drive was organized during the visit of Indian Space Research Organization (ISRO) Bus in our Campus on 3<sup>rd</sup> March, 2024. Two Monitors and 86 kg of E-Waste had been collected from 8 Donors during the Drive. During the Academic Session 2023-2024, a total of 1420 kilograms of E-waste and 150 Monitors were collected from various Institutions, Staff members and Students of our College, including 1285 Kg of E-waste from K.D.K. College of Engineering, Nagpur and subsequently provided it to M/s. Suritex Pvt. Ltd for recycling. As per the Ewaste Management Rule-2016 (Rule 19), M/s. Suritex Pvt. Ltd provided E-waste Manifest (C-Form 6). The College generated a revenue of Rs. 36300/-(Vide Cheque No. 001274 and 001275 dated 26/02/2024) of which, sum of Rs. 20350/- was paid to the providers through Cheque, for providing Ewaste, during the Academic Session 2023-2024.

## PROGRAMME OBJECTIVES

- To raise awareness among students, Staff and the local community about the hazards of E-Waste and the benefits of responsible recycling.
- To implement a systematic approach to collect, transport and recycle E-Waste in accordance with National and International regulations to ensure the safety of both environment and human health.
- To foster partnerships with authorized E-Waste recycling entities, Government Agencies and

local communities to collectively address the E-Waste problem.

- To extract valuable materials from E-Waste items, such as metals and components, for reuse and contribute to the circular economy.
- To prevent the harmful effects of improper E-Waste disposal on soil, water and air by diverting E-Waste from landfills and incineration.
- To train students and staff in proper E-Waste handling, collection and awareness creation, promoting a culture of responsible E-waste disposal.
- To mark the contribution of Department of Physics in executing Institutional Social Responsibilities.

## PROBLEMS FACED, IF ANY

Awareness and Participation: Everyone is not aware of the harmful effects of E-waste or the importance of its proper disposal. Encouraging participation from students, staff and other individuals was challenging due to the lack of awareness.

Collection Efficiency: Collection of E-waste required a structured collection system. The Committee faced some challenges like insufficient collection points, difficulties in reaching out to all potential contributors and ensuring consistent and regular collection.

**Inaccurate Sorting:** E-waste often contains a wide variety of materials. Accurate sorting is essential to recover valuable components. Incorrect sorting can lead to loss of valuable resources and inefficient

recycling.

**Health and Safety:** Handling E-waste can expose individuals to hazardous substances. There was a need for proper safety measures, training and protective equipment for those involved in collecting and transporting the E-waste.

To address these challenges, the Committee had a well-planned and comprehensive strategy for Ewaste Management. This included raising awareness, implementing collection mechanisms. proper collaborating with authorized recycling partners, compliance with regulations ensuring and continuously evaluating improving and the mechanism based on the experiences and challenges already faced.

### IMPACT/OUTCOME ACHIEVED

- Raised awareness among students, Staff and the local community about the hazards of E-Waste and the benefits of responsible recycling.
- Implemented a systematic approach to collect, transport and recycle E-Waste in accordance with National and International regulations to ensure the safety of both environment and human health.
- Fostered partnerships with authorized E-Waste recycling entities, Government Agencies and local communities to collectively address the E-Waste problem.
- Extracted valuable materials from E-Waste items, such as metals and components, for reuse and contribute to the circular economy.
- Tried to prevent the harmful effects of

improper E-Waste disposal on soil, water and air by diverting E-Waste from landfills and incineration.

- Trained our students and staff in proper E-Waste handling, collection and awareness creation, promoting a culture of responsible disposal.
- Marked the contribution of Department of Physics in executing Institutional Social Responsibilities.

ANALYSIS REPORT OF THE FEEDBACK OBTAINED FROM STUDENTS/ BENEFICIARIES/ ACADEMIC PEERS ETC.

"E-waste donors appreciated the prompt collection service and efficient payment process. They highlighted the convenience of scheduling pickups and the professionalism of the Staff. Many expressed satisfactions with the fair valuation of their items and the quick, seamless transactions. Overall, the experience was smooth and hassle-free, encouraging repeat participation."

GEOTAG PHOTO GALLERY WITH CAPTIONS (Only GEOTAG photos covering the entire gamut/span of the activity will be accepted)





Glimpses of 'E-Waste Pickup Van' of M/s. Suritex Pvt. Ltd. used for collecting E-Waste from KDK College of Engineering, Nagpur.



Transporter loading discarded monitors in the E-Waste Pickup Van of M/s. Suritex Pvt. Ltd.







E-Waste collected from KDK College of Engineering, Nagpur.



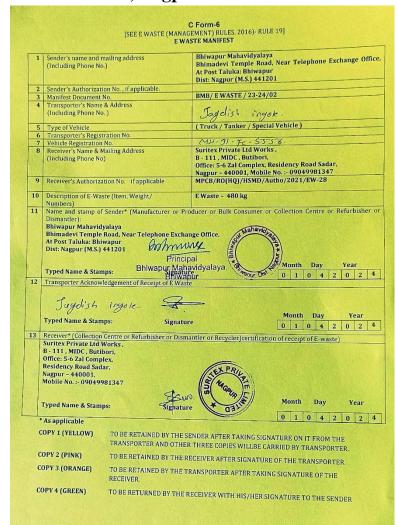
E-Waste Collection Stall set-up during E-Waste Collection Drive initiated by Bhiwapur Mahavidyalaya on 3<sup>rd</sup> March, 2024.



NCC Cadets donating E-Waste during the Collection Drive on 3<sup>rd</sup> March, 2024.



Transporting E-Waste collected from students and Staff of our Institution for recycling to M/s. Suritex Pvt. Ltd, Nagpur.

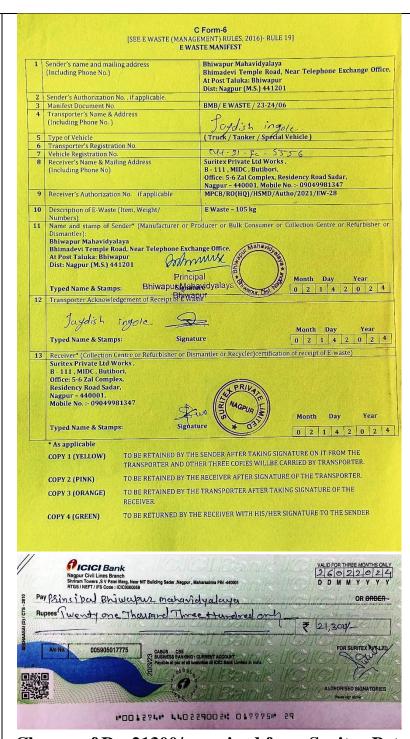


C Form-6 [SEE E WASTE (MANAGEMENT) RULES, 2016)- RULE 19]
1 Sender's name and mailing address (Including Phone No.)  Bhiwapur Mahavidyalaya Bhimadevi Temple Road, Near Telephone Exchange Office, At Post Talluka: Bhiwapur
Dist: Nagpur (M.S.) 441201  2 Sender's Authorization No., Ifapplicable.  3 Manifest Document No.  4 Transporter's Name & Address (Including Phone No.)  5 Type of Vehicle (Truck / Tanker / Special Vehicle)
5   Type of Vehicle   (Truck / Tanker / Special Vehicle     6   Transporter's Registration No.   M   3   FC   355     7   Vehicle Registration No.   Suritex Private Ltd Works,     8   Receiver's Name & Mailing Address   B - 111 , MIDC , Butlbori,     0ffices : 5-6 Zal Complex, Residency Road Sadar,     Nappur - 440001, Mobile No. : 09049981347
9 Receiver's Authorization No. if applicable MPCB/RO(HQ)/HSMD/Autho/2021/EW-28  10 Description of E-Waste (Item, Weight/ EWaste - 468 kg Numbers)  11 Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or
Dismantler): Bhiwapur Mahavidyalaya Bhimadevi Temple Road, Near Telephone Exchange Office, At Post Taluka: Bhiwapur Dist: Nagpur (M.S.) 441201  Principal Bhiwapur Mahavidyalaya
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Typed Name & Stamps: Signature
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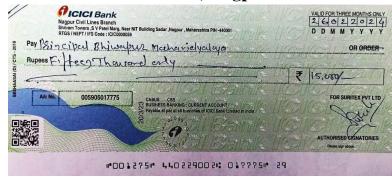
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E-Waste Manifest (Form No. 6) received from the recycler M/s. Suritex Pvt. Ltd., Nagpur



Cheque of Rs. 21300/- received from Suritex Pvt. Ltd. against the E-Waste Supplied to M/s. Suritex Pvt. Ltd., Nagpur



Cheque worth Rs. 15000/- received from M/s. Suritex Pvt. Ltd., Nagpur against the E-Waste supplied to them for recycling.



Cheque of Rs. 20350/- handed over to the Principal of KDK College of Engineering, Nagpur against the supply of E-Waste for recycling.

Principal Bhiwapur Mahavidyalaya