

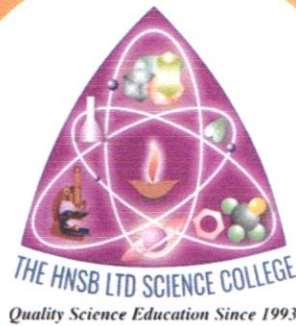
THE HNSB. LTD. SCIENCE COLLEGE, HIMATNAGAR

NAAC Accredited : B Grade,

GSIRF: 4 Star Rank, ISO: 9001:2015, 21001:2018

Managed By Himatnagar Kelvani Mandal

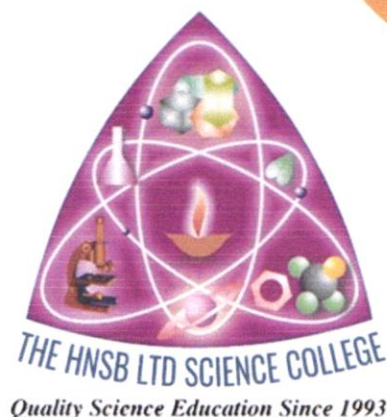
NSS Camp : At Katvad. Ta: Himatnagar



SWACHH SURAKSHA

RESPONSIBILITY TOWARDS SOCIETY

Principal
The HNSB. Ltd. Science College
Himatnagar-383 601



INSTITUTIONAL DISTINCTIVENESS (2025-2026)

(SWACHH SURAKSHA – RESPONSIBILITY TOWARDS SOCIETY)

(From Classroom Values to Community Safety)

(An HNSBin Students Led Safety Kit Initiative For Sanitation Heroes)

SUBMITTED BY

The HNSB. Ltd. Science College, Himatnagar

Managed by Himatnagar Kelavani Mandal

NAAC Accredited B Grade, ISO Certified &

GSIRF-4 Star Ranked Institution

LOCATION

Village: Katvad, Taluka: Himatnagar, Gujarat, India

GUIDED, MONITORED AND IMPLEMENTED UNDER THE LEADERSHIP OF

PRINCIPAL:

DR. P.S. PATEL

Principal
The HNSB. Ltd. Science College
Himatnagar-383 001

:: IQAC COORDINATOR ::

DR. Z.M. GADHAWALA

Faculty Members & Non-Teaching Staff

Principal
The HNSB. Ltd. Science College
Himatnagar-383 001

1. EXECUTIVE SUMMARY

Institutional Ethos, Academic Responsibility and Societal Impact

The HNSB. Ltd. Science College, Himatnagar has always upheld the philosophy that **science education attains its true meaning only when it safeguards human life, dignity, and well-being**. As a NAAC-accredited, GSIRF 4-Star ranked institution managed by Himatnagar Kelavani Mandal, the college consciously integrates academic excellence with social responsibility. During the academic year 2025–26, this institutional philosophy was translated into measurable social action through *Swachh Suraksha – Responsibility Towards Society*, a signature initiative that emerged not as an isolated outreach activity but as a **curriculum-informed, student-driven, and institutionally governed social intervention**.

Swachh Suraksha was **conceptualized, designed, executed, and documented entirely within the academic ecosystem of The HNSB. Ltd. Science College*, under the strategic mentoring of the IQAC, Principal, and faculty members. The project represents a rare model where **students were not volunteers alone, but scientific problem-solvers, material developers, trainers, communicators, and documentarians**. This transition—from passive learners to socially accountable practitioners—forms the core uniqueness of the initiative.

The project addressed a critical and often invisible occupational health issue: the routine exposure of municipal sanitation workers to biological, chemical, and environmental hazards due to the absence of basic protective practices. Through systematic pre-intervention surveys, direct interaction, and scientific need assessment, students of The HNSB. Ltd. Science College, Himatnagar identified alarming gaps in mask usage, glove usage, and post-cleaning hand hygiene among sanitation workers associated with **Himatnagar Nagarpalika**. These findings transformed a social concern into a **scientifically validated institutional responsibility**.

What makes *Swachh Suraksha* exceptional is its **end-to-end academic ownership**. Instead of procuring ready-made materials, students prepared reusable cotton face masks, stitched hand gloves, formulated herbal liquid handwash using neem, tulsi, ZnO nanoparticles, and chitosan powder, conducted skin-safety testing, filled and labeled bottles, and assembled complete safety kits within the college ecosystem. Each step reflected applied learning from chemistry, physics, environmental science, and life sciences, thereby converting textbook knowledge into **life-protecting technology**.

Beyond material distribution, the initiative focused on **behavioral transformation and dignity-based engagement**. Students personally trained sanitation workers on correct usage, cleaning, reuse, and hygiene practices, ensuring that the intervention moved from charity to **capacity-building**. The inclusion of awareness training, follow-up observation, and feedback mechanisms ensured sustained impact rather than one-time assistance.


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Institutionally, *Swachh Suraksha* stands as a **high-impact distinctive practice** because it simultaneously achieved:

- Academic enrichment through experiential and research-based learning
- Social impact through measurable improvement in occupational hygiene
- Institutional visibility through municipal collaboration and public trust
- Governance integration through IQAC-led planning and monitoring
- Value education by nurturing empathy, humanity, and civic responsibility among students

The initiative culminated in a formally coordinated distribution programme, extensive stakeholder participation, and a student-produced documentary film that captured the complete journey of the project—further reinforcing documentation, transparency, and academic seriousness.

In essence, *Swachh Suraksha – Responsibility Towards Society* is not merely an outreach programme of The HNSB. Ltd. Science College, Himatnagar; it is a **living demonstration of the institution's educational philosophy**, where science serves society, students become responsible citizens, and higher education emerges as a force for public good. This holistic integration of **academics, ethics, governance, and community engagement** firmly establishes the initiative as a defining marker of the college's **institutional distinctiveness under NAAC**.

2. CONTEXT AND RATIONALE

Ground Reality Observed by an Academically Sensitive Institution

The **The HNSB. Ltd. Science College**, Himatnagar is institutionally committed to observing society not from a distance, but through the lens of scientific responsibility and human sensitivity. During routine academic activities, field visits, and daily campus–city interaction, faculty members and students repeatedly observed municipal sanitation workers performing essential public duties without basic protective equipment such as face masks, hand gloves, hair caps, or access to hand hygiene facilities.

These sanitation heroes were seen handling solid waste, sewage residues, and roadside debris, thereby exposing themselves continuously to biological pathogens, chemical contaminants, sharp objects, and environmental pollutants. Despite the presence of national cleanliness initiatives and awareness campaigns, the **ground-level reality revealed a critical gap between policy intent and practical protection**, particularly for frontline sanitation workers associated with **Himatnagar Nagarpalika**.

For The HNSB. Ltd. Science College, Himatnagar, this observation was not merely a social discomfort but a profound academic question: *How can science education remain meaningful if it does not intervene where human safety is visibly at risk?* As a science institution deeply rooted in community engagement, the college perceived the absence of occupational hygiene practices as both a **public health concern** and a **failure of applied scientific outreach**.


Principal

The rationale of *Swachh Suraksha – Responsibility Towards Society* emerged from this dual realization. It was driven by the belief that scientific knowledge generated within classrooms and laboratories must actively reach those who protect public cleanliness but remain socially and medically vulnerable. The HNSB. Ltd. Science College, Himatnagar therefore positioned itself as an academic catalyst—bridging scientific learning with societal protection—by transforming observed ground realities into a structured, evidence-based, and humane institutional response.

3. PROBLEM IDENTIFICATION BY STUDENTS AND IQAC

Student Observation, Academic Validation and Institutional Approval

At **The HNSB. Ltd. Science College**, problem identification is not imposed from administration but **emerges organically from student engagement with society**. The initial concern was voiced by students during routine interactions outside the campus—while commuting, during community observation, and through informal conversations with municipal sanitation workers. Students noticed recurring patterns of unsafe practices: bare-hand waste handling, absence of masks and gloves, and lack of post-work hand hygiene. These were not isolated incidents but consistent daily realities.

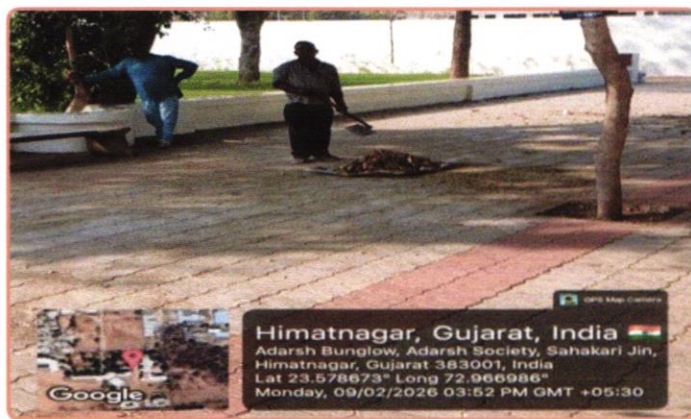
Recognizing the seriousness of these observations, students of The HNSB. Ltd. Science College, Himatnagar formally presented their concerns to faculty mentors, transforming informal empathy into academic inquiry. The matter was subsequently placed before the IQAC Coordinator, where it was reframed from a social observation into a **researchable institutional problem**. The IQAC did not treat the issue as a routine extension activity; instead, it encouraged students to validate their concerns using scientific tools such as structured surveys, direct interviews, photographic evidence, and risk-exposure documentation.

Under IQAC guidance, students conducted ward-wise need assessment among sanitation workers associated with **Himatnagar Nagarpalika**, focusing on measurable indicators like frequency of PPE usage, health complaints, and awareness of hygiene-related diseases. This process ensured that the problem was **data-driven, verifiable, and context-specific**, rather than assumed or generalized.

The IQAC of The HNSB. Ltd. Science College, Himatnagar played a decisive role in filtering, approving, and institutionalizing the identified problem. By validating its social relevance, academic feasibility, and long-term impact, the IQAC transformed student concern into an officially recognized institutional initiative. This bottom-up, evidence-based problem identification process distinctly reflects the college's culture of **student empowerment, academic integrity, and socially responsive governance**, setting it apart as an institution where student voice evolves into structured societal intervention.


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4. DISTINCTIVE IDEA AND CONCEPTUAL FRAMEWORK

From Scientific Curriculum to Human Protection

The core distinctiveness of *Swachh Suraksha – Responsibility Towards Society* lies in the way **The HNSB. Ltd. Science College** consciously transformed its *regular science curriculum into a living system of human protection*. Unlike conventional outreach activities that operate parallel to academics, this initiative was architected as an **academic-to-action continuum**, where classroom knowledge directly evolved into occupational safety solutions for sanitation workers.

The college intentionally designed *Swachh Suraksha* so that students functioned not as passive volunteers or distributors of aid, but as **scientific creators, process engineers, trainers, behavioral communicators, and institutional documenters**. Every stage of the project demanded academic application—right from identifying chemical compositions for safe herbal handwash, to selecting suitable fabrics for reusable face masks, to understanding ergonomic considerations in hand glove design. This deliberate academic anchoring makes the initiative institutionally distinctive.

The conceptual framework adopted by The HNSB. Ltd. Science College, Himatnagar was **interdisciplinary and outcome-oriented**, reflecting the spirit of the National Education Policy (NEP) 2020. NEP 2020 emphasizes experiential learning, multidisciplinary integration, ethical grounding, and societal relevance of education; *Swachh Suraksha* operationalized these principles at the grassroots level. Students seamlessly integrated **applied chemistry** through formulation and skin-safety testing of herbal liquid handwash, **physics and material science** through mask and glove design for durability and comfort, and **environmental responsibility** by prioritizing reusable, biodegradable, and low-waste materials.

Beyond scientific integration, the framework embedded **social science and value education**, particularly focusing on dignity of labour, behavioral change, and respectful communication with sanitation workers. Students were trained to engage not as benefactors, but as collaborators and learners, thereby nurturing empathy, ethical sensitivity, and civic responsibility—core attributes envisioned under NEP 2020's holistic education framework.

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In essence, Swachh Suraksha represents a **curriculum-transcending institutional innovation** where The HNSB. Ltd. Science College, Himatnagar aligned scientific rigor, national education reforms, and social conscience into a single, scalable occupational hygiene ecosystem. This fusion of **academic excellence, national policy alignment, and human-centered impact** establishes the project as a defining marker of the college's institutional distinctiveness.

5. OBJECTIVES OF THE PROJECT

Multi-Dimensional and Institution-Centric Goals

The objectives formulated by The HNSB. Ltd. Science College, Himatnagar were:

- To ensure occupational safety of sanitation workers
- To provide experiential learning to science students
- To inculcate humanity and civic responsibility
- To establish institute–municipality partnership
- To create a replicable national model

Each objective was measurable and outcome-oriented.

6. METHODOLOGY: PHASE-WISE IMPLEMENTATION FRAMEWORK

Scientifically Structured, Student-Executed and IQAC-Monitored Model

The entire Swachh Suraksha initiative was implemented through a **clearly defined, phase-wise methodological framework** developed and institutionalized by **The HNSB. Ltd. Science College**. The methodology was not incidental or ad-hoc; it was **academically planned, ethically governed, and continuously monitored by the Internal Quality Assurance Cell (IQAC)** to ensure transparency, replicability, and measurable impact.

The project methodology was structured into **four interconnected phases**, each with specific objectives, defined student roles, faculty mentoring mechanisms, documentation protocols, and outcome indicators. This phase-wise execution ensured that Swachh Suraksha evolved as a **process-based academic intervention**, rather than a one-time outreach activity. At every stage, students maintained records, photographs, videos, attendance sheets, survey formats, laboratory notes, and reflective logs, enabling robust evidence generation for NAAC and future replication.

This methodological rigor reflects the institutional maturity of The HNSB. Ltd. Science College, Himatnagar, where social initiatives are treated with the same seriousness as academic research projects.


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7. PHASE I – BASELINE SURVEY AND NEED ASSESSMENT

Student-Led Field Research and Evidence-Based Problem Mapping

Phase I marked the transition of Swachh Suraksha from **observation to scientific inquiry**. Under faculty guidance and IQAC supervision, students of The HNSB. Ltd. Science College, Himatnagar conducted a **structured baseline survey** among sanitation workers associated with **Himatnagar Nagarpalika**. Students were trained in ethical field interaction, survey design, and data recording before entering the field.

Ward-wise teams interacted directly with sanitation workers across multiple city zones, documenting real-life occupational practices. The survey focused on clearly defined parameters such as frequency of face mask usage, availability and use of hand gloves, handwashing practices after waste handling, incidence of skin infections, cuts, allergies, and awareness of hygiene-related diseases. Students also recorded qualitative inputs, including workers' perceptions, challenges, and constraints.

This phase was extensively documented through **photographs of field interaction, filled survey forms, student field diaries, and short video clips**, all authenticated by faculty mentors. The collected data was compiled, tabulated, and analyzed within the college, allowing students to establish **baseline indicators** against which post-intervention impact could later be measured.

Academically, Phase I strengthened students' research aptitude, data literacy, ethical sensitivity, and social communication skills. Institutionally, it ensured that Swachh Suraksha was grounded in **evidence-based need assessment**, reinforcing the credibility and seriousness of The HNSB. Ltd. Science College, Himatnagar as a socially responsive science institution.

8. PHASE II – SCIENTIFIC PREPARATION OF SAFETY MATERIALS

On-Campus Production, Laboratory Application and Skill-Based Learning

Phase II represents the **most distinctive academic strength** of Swachh Suraksha, where students of The HNSB. Ltd. Science College, Himatnagar converted scientific theory into tangible safety solutions through **hands-on production within the college ecosystem**.

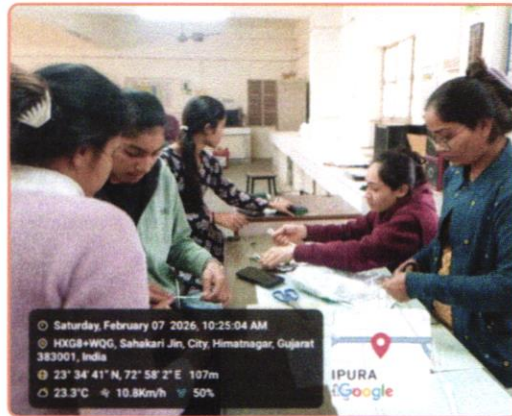
Face Mask Preparation (Applied Material Science & Skill Training)

Students designed and stitched reusable cotton face masks using green, breathable fabric. Under faculty and laboratory staff guidance, students learned cutting techniques, stitching patterns, pleat formation, elastic fitting, and hygiene considerations. Emphasis was placed on washability, durability, and user comfort.



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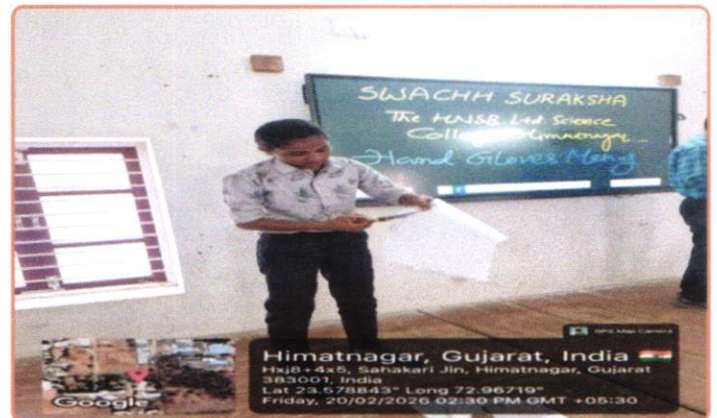
Photographs: cloth cutting, stitching process, student teams at work
Video: step-by-step mask preparation workshops



Khushi Video for Mask

Hand Gloves Preparation (Design, Ergonomics and Reuse Focus)

Hand gloves were prepared and assembled under supervision, focusing on size adaptability, grip comfort, and reuse potential. Students understood ergonomic fitting and durability aspects, ensuring gloves were practical for long working hours.



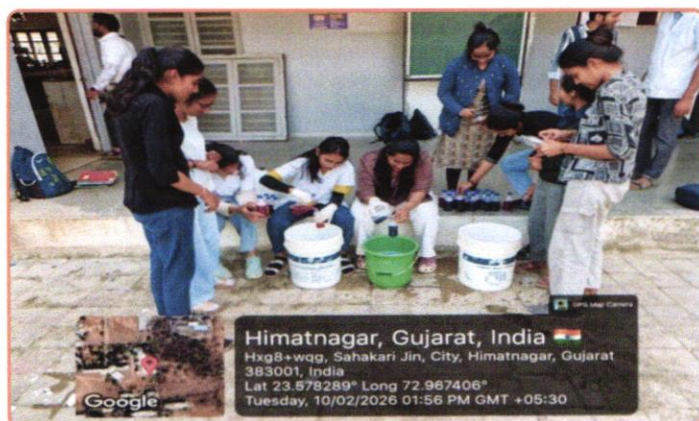
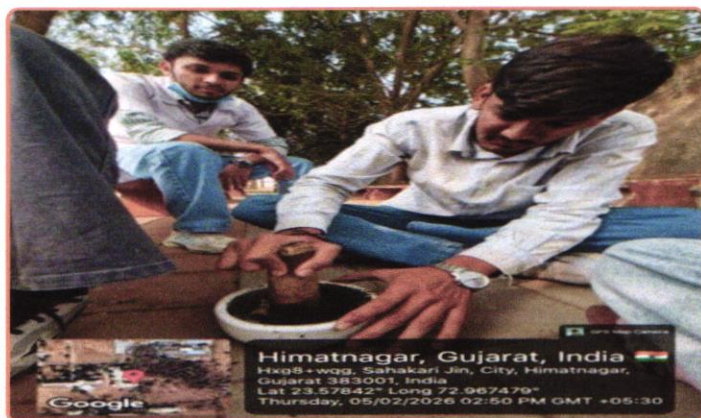
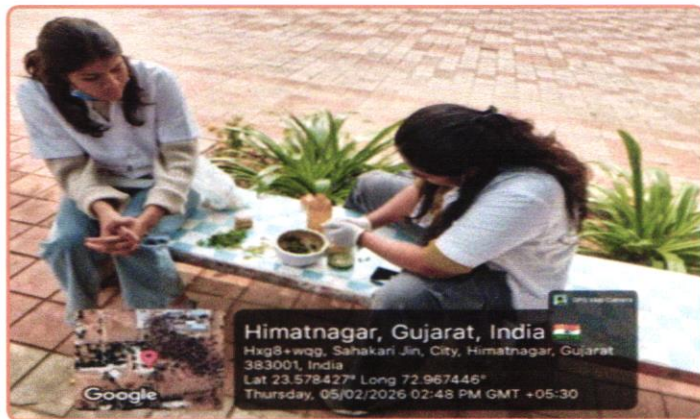
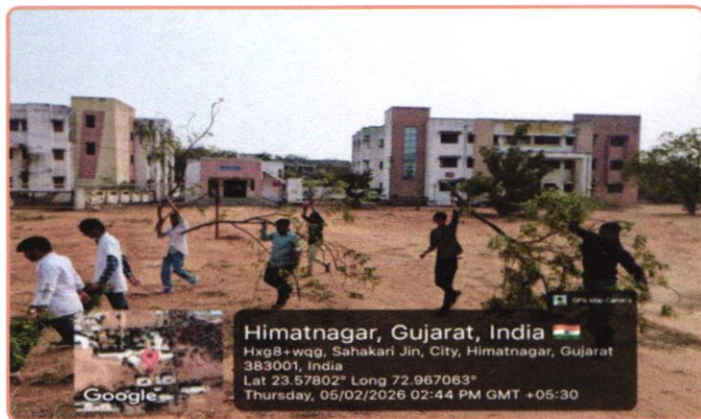
**Asfiya_Ajmat Gloves
 stitching Video**

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 Himatnagar-383 001

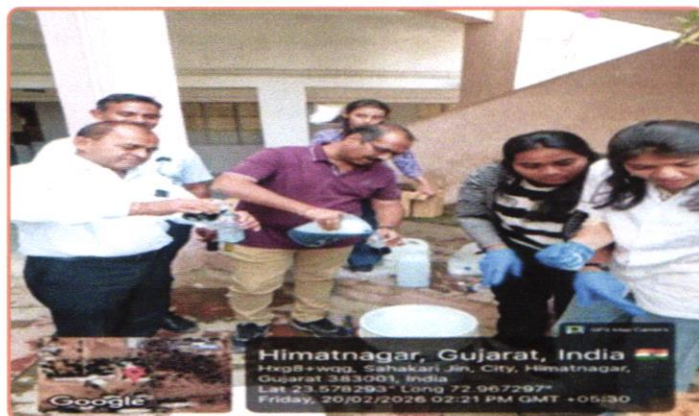
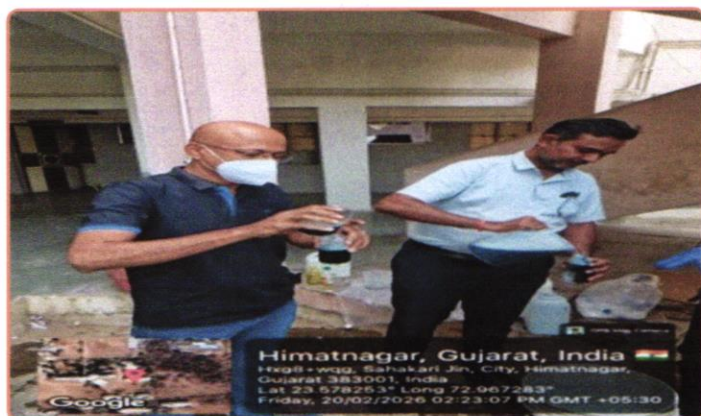
Liquid Handwash Preparation (Applied Chemistry & Safety Testing)

Chemistry students prepared herbal liquid handwash using neem and tulsi extracts, fortified with ZnO nanoparticles and chitosan powder. The formulation involved precise measurement, controlled heating, filtration, and mixing. Skin compatibility tests were conducted on volunteers to ensure safety and non-irritation.

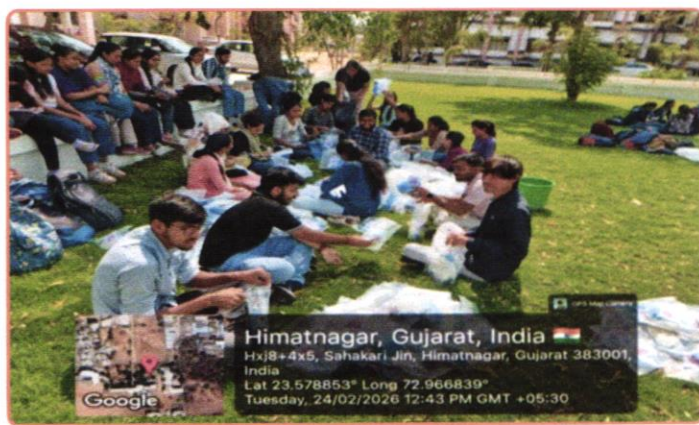
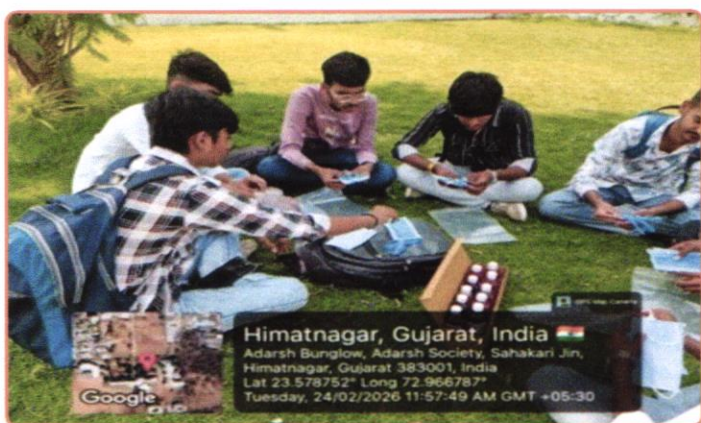



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Filling, Labeling and Scientific Communication :



Students filled handwash into bottles, designed and printed labels with safety instructions and college identity, and ensured uniformity and hygiene. This stage enhanced scientific communication, packaging ethics, and attention to detail.



Kit Assembly (Integration and Logistics Management)

Finally, students assembled **300 complete Swachh Suraksha kits**, each containing face masks, hand gloves, and liquid handwash. Teams followed checklist-based packing, batch numbering, and storage protocols.

Phase II stands as a **powerful demonstration of experiential learning**, proving how The HNSB. Ltd. Science College, Himatnagar integrates laboratory learning, skill development, environmental responsibility, and social application into a single academic process.

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9. PHASE IV – DISTRIBUTION AND GOVERNANCE INTERFACE

Institute–Municipality Collaboration for Structured Social Impact

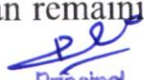
Phase IV of *Swachh Suraksha – Responsibility Towards Society* represents the **governance, validation, and public accountability dimension** of the initiative, where academic effort formally intersected with municipal administration. **The HNSB. Ltd. Science College, Himatnagar** ensured that the transition from campus-based preparation to community-level implementation was carried out through an officially coordinated and transparent mechanism, thereby strengthening institutional credibility and civic trust.

After the completion of scientific preparation, testing, and assembly of **300 comprehensive Swachh Suraksha safety kits**, the Principal, IQAC Coordinator and faculty member of The HNSB. Ltd. Science College, Himatnagar initiated formal dialogue with **Himatnagar Nagarpalika**. The objective was to integrate the student-led initiative within the municipal sanitation framework so that distribution would occur in a structured, dignified, and administratively endorsed manner. This step elevated the project from a voluntary outreach activity to a **recognized institute–municipality partnership model**.

Following discussions, Himatnagar Nagarpalika extended full cooperation and jointly scheduled a formal distribution programme on **26 February 2026**, held at **Dr. Nalinkant Gandhi Town Hall, Himatnagar**. The selection of an official civic venue symbolized institutional seriousness and conveyed public respect toward sanitation workers. The programme was attended by key municipal leaders, including the Nagarpalika President, Standing Committee Chairman, Health Committee Chairman, Swachh Bharat Mission Coordinator, corporators, sanitation supervisors, and ward-level staff, alongside the Principal, IQAC Coordinator, faculty members, and students of The HNSB. Ltd. Science College, Himatnagar.

During the programme, **Swachh Suraksha safety kits**—each containing **three reusable face masks, three hair caps, three pairs of hand gloves, and one bottle of scientifically prepared herbal liquid handwash**—were distributed to sanitation workers from **wards 1 to 12 of Himatnagar city**. Distribution was carried out systematically, ensuring equitable coverage and proper orientation for beneficiaries. Students actively demonstrated correct usage of PPE, reinforcing the educational intent of the project even at the distribution stage.

This phase also functioned as a **governance interface**, where municipal officials publicly acknowledged the academic contribution of The HNSB. Ltd. Science College, Himatnagar toward occupational health and urban hygiene. The presence of elected representatives and senior administrators provided third-party validation, enhancing the project's legitimacy for NAAC documentation and future scalability. The collaboration highlighted how higher education institutions can act as **knowledge partners in local governance**, rather than remaining detached academic spaces.


Principal
The HNSB. Ltd. Science College
Himatnagar-383 804

Importantly, Phase IV extended beyond ceremonial distribution. Feedback was formally collected from sanitation workers, municipal officers, and external academic experts, capturing qualitative and experiential validation of the initiative. This multi-stakeholder engagement confirmed that the project addressed a genuine public health gap and demonstrated measurable behavioral change in PPE usage and hygiene practices.

Through this structured distribution and governance interface, **The HNSB. Ltd. Science College, Himatnagar** established a **model of responsible institutional citizenship**, where scientific education, student leadership, and municipal cooperation converged to protect human dignity. Phase IV thus stands as a decisive proof of the project's **administrative integration, social acceptance, and institutional distinctiveness**, making *Swachh Suraksha* a benchmark practice under NAAC's criteria for extension, outreach, and societal engagement.

SWACHH SURAKSHA
Responsibility Towards Society

An HNSBian Student-Led Safety Kit Initiative for Sanitation Heroes

From Classroom Values to Community Safety

Where HNSBian Student-Led Safety Kit Initiative for Sanitation Heroes

Pilot Initiative
350 SWA-SURAKSHA PPE Kits

Coverage Area
Wards 1–11 of Himatnagar

Jointly Organized By
IQAC, The HNSB Ltd. Science College
NAAC Accredited | GSIRF Awarded | ISO Certified

Himatnagar Nagarpalika

Esteemed Guests

Management Leadership

- **Shri Hirenbhai N Gor**
(Vice President, Himatnagar Kelvani Mandal)
- **Shri Pankajbhai P Patel**
(Treasurer, Himatnagar Kelvani Mandal)

Municipal & Mission Representatives

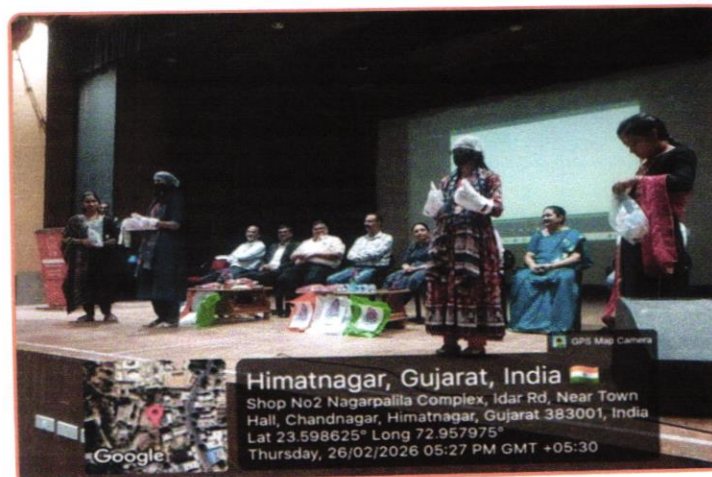
- **Shri Vimalbhai A. Upadhyay**
(President, Himatnagar Nagarpalika)
- **Shri Satishbhai N. Patel**
(Chief Officer, Mansa Nagarpalika)
- **Shri Upendrabhai Gadhvi**
(Chief Officer, Himatnagar Nagarpalika)
- **Smt. Jinalben H. Patel**
(Standing Committee Chairman)
- **Shri Dilipbhai J. Patel**
(Chairman, Health Committee)
- **Smt. Hansaben M. Pitroda**
(Coordinator, Swachh Bharat Mission)

Organized By
IQAC, The HNSB Ltd. Science College & Himatnagar Nagarpalika

Himatnagar Nagarpalika

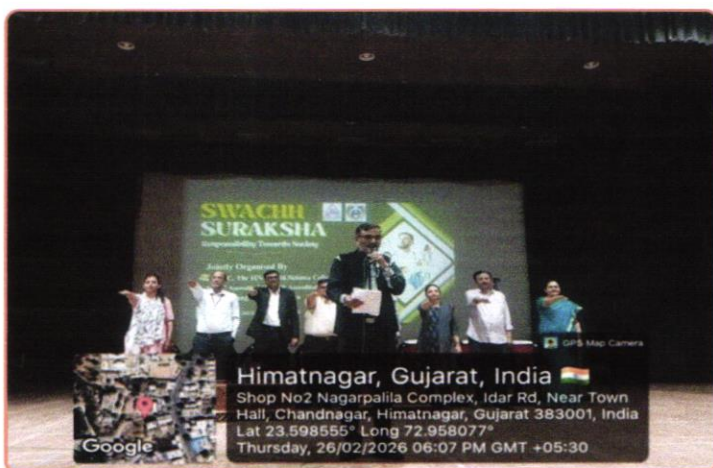
26th February 2026 | 5:00 PM to 6:00 PM

Principal: Dr. P. S. Patel | IQAC Coordinator: Dr. Z. M. Gadhawala



Principal
The HNSB. Ltd. Science College
Himatnagar-383 604

The HNSB. Ltd. Science College, Himatnagar



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Principal
The HNSB. Ltd. Science College
Himatnagar-383 601

10. OUTCOMES ACHIEVED:

Academic, Student, Social, Institutional and Governance Outcomes with Real-World Evidence

The outcomes of *Swachh Suraksha – Responsibility Towards Society* were **not theoretical or assumed**, but **directly observed, measured, documented, and validated** through pre-survey, intervention, follow-up observation, stakeholder feedback, and governance participation. The initiative generated **multi-layered outcomes**, firmly establishing **The HNSB. Ltd. Science College, Himatnagar** as a socially responsive and academically impactful institution.

@ Academic Outcomes – Learning Converted into Living Science

The most significant academic outcome was the **transformation of textbook science into applied, lifesaving practice**. Students did not merely study chemistry, physics, environmental science, or research methodology—they *used* them in real contexts. Through formulation of herbal liquid handwash, testing skin compatibility, preparing reusable PPE, and documenting results, students achieved **true experiential learning**, aligned with outcome-based education.

Research aptitude was strengthened as students conducted **baseline surveys, data analysis, and post-intervention assessments**, learning how to identify variables, interpret patterns, and draw evidence-based conclusions. The requirement to maintain records, labels, protocols, and outcome tables enhanced **scientific documentation and reporting skills**, directly supporting NAAC and NEP-2020 expectations.

@ Student Outcomes – Responsible Citizens and Emerging Leaders

At the student level, *Swachh Suraksha* produced outcomes that **cannot be achieved inside class rooms alone**. Students developed **leadership and teamwork skills** by managing material procurement, production schedules, coordination with faculty, and engagement with municipal authorities. Many students took ownership beyond assigned roles, reflecting genuine civic responsibility.

A profound outcome was the **development of social empathy and ethical sensitivity**. Regular interaction with sanitation workers reshaped student perspectives on dignity of labour, health inequity, and social responsibility. Students no longer viewed cleanliness as a service taken for granted, but as a human effort deserving respect and protection.

Students also acquired **communication and digital competencies** by designing labels, posters, awareness messages, and producing a complete documentary film of the project. These skills strengthened confidence, public speaking ability, and digital literacy—essential graduate attributes in contemporary education.

@ Social Outcomes – Visible Change at the Grassroots Level

The most tangible social outcome was the **measurable improvement in hygiene behaviour** among sanitation workers associated with **Himatnagar Nagarpalika**. Post-intervention observation showed a clear increase in regular use of face masks, hand gloves, hair caps, and handwashing practices during and after cleaning activities.

Beyond physical safety, the project significantly enhanced the **sense of dignity and self-worth** among sanitation workers. The fact that students prepared kits personally, explained usage respectfully, and interacted without hierarchy created emotional assurance and social inclusion. Workers openly expressed feeling “seen, valued, and protected,” which is a critical but often ignored social outcome.

The initiative also indirectly raised **public awareness**, as visible PPE usage by sanitation workers reinforced hygiene consciousness among citizens in markets, societies, and public roads.

@ Institutional Outcomes – Strengthening Quality, Credibility and Visibility

For **The HNSB. Ltd. Science College, Himatnagar**, the project resulted in strong institutional outcomes. *Swachh Suraksha* emerged as a **flagship best practice** under extension, outreach, and community engagement, significantly strengthening the college's **NAAC qualitative indicators**. The initiative enhanced **community trust**, positioning the college not merely as an academic institution but as a **reliable social partner**. Media coverage, municipal acknowledgment, and public visibility elevated the institution's reputation at the city level. The project also reinforced the role of IQAC as a proactive quality driver rather than a compliance body.

@ Governance Outcomes – Sustainable Institute–Municipality Partnership

At the governance level, the project successfully established a **functional and respectful linkage between academia and local administration**. The structured collaboration with Himatnagar Nagarpalika demonstrated that student-led academic initiatives can complement municipal health and sanitation goals.

Municipal officials publicly acknowledged the scientific and social contribution of The HNSB. Ltd. Science College, Himatnagar, validating the project as a **support system to civic governance**. This outcome lays the foundation for future MoUs, scale-up initiatives, and policy-aligned collaboration, transforming the project into a **replicable governance-linked social innovation model**.

Outcome Summary:

In essence, *Swachh Suraksha* achieved **learning with purpose, service with science, and governance with humanity**. The outcomes reflect **real change in behaviour, mindset, skills, systems, and relationships**, making the initiative a **high-impact, evidence-based institutional practice** that truly distinguishes **The HNSB. Ltd. Science College, Himatnagar**.


Principal

The HNSB. Ltd. Science College

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The HNSB. Ltd. Science College, Himatnagar

12. CONCLUSION – PROOF OF INSTITUTIONAL DISTINCTIVENESS

Why Swachh Suraksha Defines The HNSB. Ltd. Science College, Himatnagar

Swachh Suraksha – Responsibility Towards Society is not an event, not a campaign, and not a momentary act of goodwill. It is the **living soul and institutional conscience** of **The HNSB. Ltd. Science College, Himatnagar**, expressed through sustained, science-driven, and deeply humane social action. This initiative stands as a powerful declaration that education, especially science education, must ultimately serve life, dignity, and society. From the first silent observation of unsafe working conditions to systematic post-intervention impact assessment, every step of *Swachh Suraksha* reflects a campus culture rooted in responsibility, empathy, ethical science, and social sensitivity.

Through *Swachh Suraksha*, The HNSB. Ltd. Science College, Himatnagar elevated learning beyond syllabi and examinations. Classrooms were transformed into **laboratories of compassion**, laboratories into **sites of social innovation**, and students into **ethical leaders and responsible citizens**. Scientific knowledge was not confined to journals or practical files; it was converted into masks that protected breath, gloves that protected hands, and handwash that protected health. The project built a living bridge between curriculum, community engagement, and local governance, perfectly embodying outcome-based education and the spirit of the National Education Policy—where learning is experiential, multidisciplinary, and socially meaningful.

The true beauty and distinctiveness of this initiative lie in its **collective strength and inclusive partnerships**. *Swachh Suraksha* emerged as a rare and exemplary **Institute–Industry–Alumni–Student–Community–Municipality collaboration model**. Industry partners stood shoulder to shoulder with the institution: **Sehat Pharma Pvt. Ltd.** supported the project through the donation of SLS powder under an MoU, while **Pulse Pharma Mfg. Co.** contributed 300 bottles under an MoU, ensuring hygienic and standardized packaging of the liquid handwash. **Ahinsa Polyfilms Pvt. Ltd.** enriched the initiative by donating 300 carry bags, and the support from Tajpur reflected the participation of the local community ecosystem.

Equally heartening was the contribution from socially conscious individuals. Mr. Mohsin Chauhan extended support from the local society by donating 200 hair caps, 200 face masks, and 200 hand gloves—an act that strengthened community ownership of the project. From within the student fraternity itself, PG students Mr. Anshu Prajapati and Mr. Anirudh Charan contributed ZnO nanoparticles and chitosan powder, transforming the initiative into a **research-integrated public health intervention**. Alumni engagement added emotional depth and sustainability when Mr. Gajendrasinh Parmar generously donated ₹10,000, reaffirming that alumni of The HNSB. Ltd. Science College, Himatnagar remain lifelong partners in its social mission.


Principal

The HNSB. Ltd. Science College
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The HNSB. Ltd. Science College, Himatnagar

The partnership with **Himatnagar Nagarpalika**, formalized under an MoU, gave the initiative administrative legitimacy, civic visibility, and governance alignment. The dignified distribution programme, conducted in collaboration with municipal leadership, symbolised mutual trust and positioned the college as a **credible, reliable, and value-driven partner in urban public health and sanitation welfare**.

In the context of NAAC assessment, *Swachh Suraksha* stands as **conclusive, living, and measurable proof of institutional distinctiveness**. It reflects originality in conception, scientific rigour in execution, inclusiveness in partnerships, accountability in governance, sustainability in design, and replicability at scale. Most importantly, it affirms that **The HNSB. Ltd. Science College, Himatnagar** does not merely produce graduates—it **nurtures humane scientists, ethical leaders, and socially awakened citizens**. Through *Swachh Suraksha*, the college actively participates in building a healthier, more dignified, and socially conscious India—one sanitation hero, one student, and one compassionate scientific action at a time.

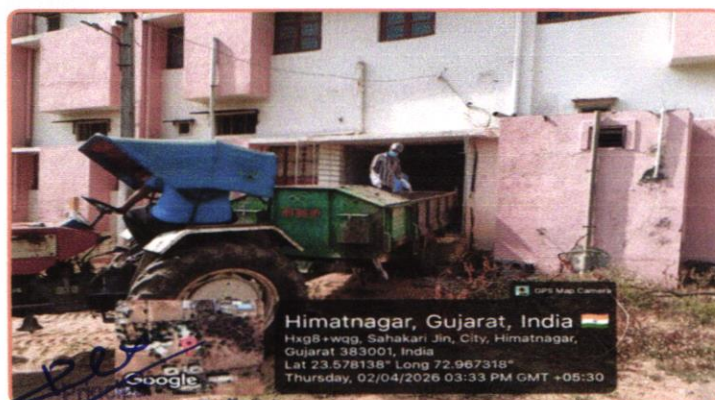
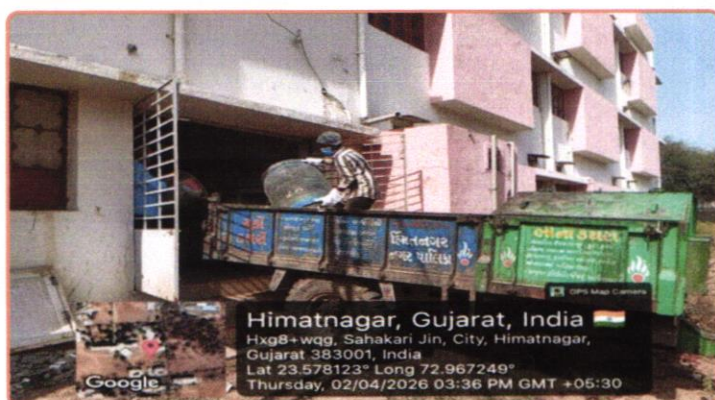
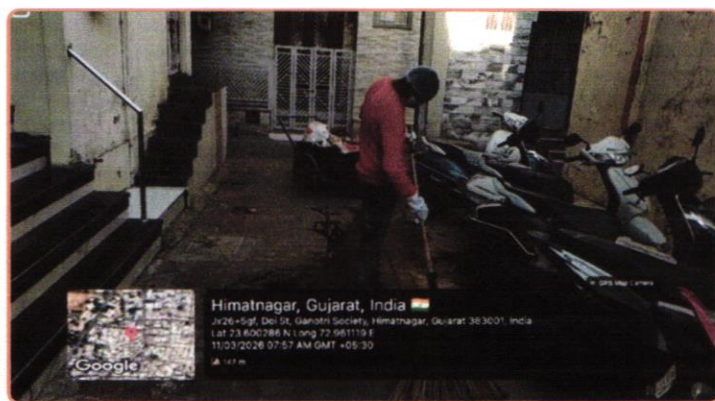
Swachh Suraksha Project – Post Survey Insights

Conducted by: The HNSB. Ltd. Science College, Himatnagar

In Collaboration with: Himatnagar Nagarpalika

@ Transformational Impact: A Comparative Overview

The post-survey conducted by our dedicated team of students and faculty reveals a **remarkable transformation in hygiene practices** among sanitation heroes after the successful implementation of the *Swachh Suraksha Project*.



Hygiene Practice	Before Awareness approx.(%)	After Awareness approx(%)	Overall Improvement approx(%)
Hair Cap Usage	5%	65%	60%
Mask Usage	0%	70%	+70%
Gloves Usage	2.0%	70%	+68.0%
Handwashing Habit	15.0%	75%	60%

Key Highlights

- **Massive Behavioral Shift:**

Mask usage increased from *negligible levels* to *near-universal adoption*.

- **Enhanced Safety Practices:**

Gloves usage saw a **significant rise**, ensuring better protection during sanitation work.

- **Hygiene Awareness Boost:**

Handwashing habits improved drastically, reflecting **deep-rooted awareness and habit formation**.

- **Consistency & Compliance:**

Participants demonstrated **strong adherence** to the guidelines provided during the project.

Conclusion

The *Swachh Suraksha Project* stands as a **beacon of community transformation**, showcasing how **scientific awareness, practical training, and compassionate outreach** can bring measurable and meaningful change.

From Awareness to Action: Empowering Our Sanitation Heroes for a Healthier Tomorrow.


Principal
The HNSB. Ltd. Science College
Himatnagar-383 004

13. DOCUMENTARY FILM AND STUDENT MEDIA ENGAGEMENT



Academic Documentation through Visual Storytelling

Prepared by Students Team : aastha Patel, Ved Patel, Dev Limbachiya, Azmat Fatema, Tan Patel, Jayrajsinh, etc

A documentary film titled *Swachh Suraksha – Responsibility Towards Society* was conceptualized, scripted, filmed, and edited entirely by a student team of The HNSB. Ltd. Science College, Himatnagar. This strengthened digital literacy, communication, and archival documentation

Documentary Film:

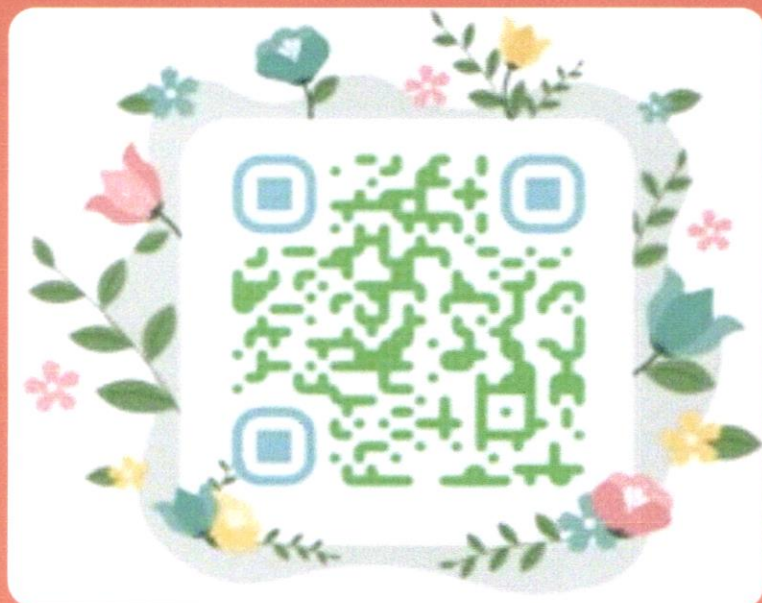
SWACHH SURAKSHA

Prepared By M.Sc Students :

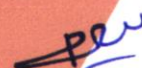
Mr.Ved Patel, Ms. Astha Patel & Ms.Bhumi Patel

Script Writer : IQAC Coordinator :

Dr.Z.M.Gadhawala



***Institutional Distinctiveness 2026
Swachh Suraksha Documentary Film***


Principal

The HNSB. Ltd. Science College
Himatnagar-383 001

AWARD From Himatnagar Nagarpalika



हिंमतनगर नगरपालिका
अहर्निश सेवामहे

**HIMATNAGAR
NAGARPALIKA**

**हिंमतनगर
नगरपालिका**

APPRECIATION AWARD CERTIFICATE

This Appreciation Award is proudly presented to
The HNSB. Ltd. Science College, Himatnagar
in recognition of the commendable support and social
commitment shown in organizing the
“Swachh Suraksha Program”
on **26th February 2026** for sanitation workers of
Himatnagar city, promoting health, hygiene, and safety.
Your valuable contribution towards community welfare is
highly appreciated.

Date: 27/02/2026

Place: Himatnagar



Upadhyay
Mr. Vimal Upadhyay
President
Himatnagar Nagarpalika

Principal
The HNSB. Ltd. Science College
Himatnagar

14. ESTEEMED STAKEHOLDER FEEDBACK & PUBLIC ENDORSEMENT

The *Swachh Suraksha* initiative was highly appreciated by **Mr. V. D. Zala**, Hon'ble Member of Legislative Assembly (MLA), Sabarkantha District, who lauded The HNSB. Ltd. Science College, Himatnagar for translating scientific knowledge into direct public service. He described the initiative as a **model of preventive healthcare, dignity of labour, and responsible youth leadership**, reflecting effective collaboration between higher education institutions and local governance. **Dr. Maulik Mehta**, Principal, APMC Pharmaceutical Education & Research, Himatnagar, commended the **scientific formulation, safety compliance, and quality control** maintained by students and faculty, and recognized the project as a benchmark for **applied science and interdisciplinary outreach**.

The IQAC Director and IQAC Member **Dr. Rajesh Chaudhary** from GTU, Gujarat, identified *Swachh Suraksha* as a **institutional Distinctiveness under IQAC**, highlighting its strong alignment with institutional distinctiveness, experiential learning, and governance interface.

Collectively, all Heads of Departments, faculty members, and students affirmed that *Swachh Suraksha* elevated learning beyond classrooms—instilling **social sensitivity, scientific responsibility, and civic consciousness**, thereby reinforcing the institutional ethos of **The HNSB. Ltd. Science College, Himatnagar**.

15. MEDIA COVERAGE AND PUBLIC VISIBILITY

From Local Impact to Public Recognition

The initiative received coverage by **Doordarshan**, local TV channels, newspapers, and social media, amplifying the institutional image of The HNSB. Ltd. Science College, Himatnagar as a socially committed science college.



Media News - 1



Media News - 2


Principal
The HNSB. Ltd. Science College
Himatnagar-383 001

"૨૬ ફેબ્રુઆરી ૨૦૨૬ નો દિવસ



The HNSB. LTD. Science College, Himatnagar માટે એક યાદગાર અને અવિસ્મરણીય દિવસ"



પંકજ ધ્રુવાડ

ગુજરાત વિકાસ ન્યૂઝ, હિંમતનગર : ધી. એચ.એન.એસ.બી. લી. સાયન્સ કોલેજ હિંમતનગર અને નગરપાલિકા હિંમતનગર ના સંયુક્ત ઉપક્રમે ટાઉન હોલ ખાતે હિંમતનગરના ૧૨ વોર્ડના સફાઈ કર્મી (સેનીટેશન) હીરો માટે સ્વચ્છ સુરક્ષા (Responsibility towards Society) કાર્યક્રમ ભવ્ય રીતે યોજાયો. આ પ્રસંગે કોલેજ કેમ્પસમાં જ વિદ્યાર્થીઓ દ્વારા તૈયાર કરાયેલ ફેસ માસ્ક, હેર કેપ, હેન્ડ ગ્લોવ્સ તથા પ્રવાહી હેન્ડવોશની કુલ ૩૦૦ કિટ્સ સેનીટેશન હીરોને અર્પણ કરી સન્માનિત કરવામાં આવ્યા. સાયન્સ કોલેજના પ્રિન્સિપાલ ડૉ. પંકજ પટેલ ના નેજા હેઠળ યોજાયેલ આ ગૌરવમય કાર્યક્રમમાં હિંમતનગર કેળવણી મંડળના ખજાનચીશ્રી પંકજભાઈ પટેલ, નગરપાલિકા પ્રમુખ વિમલભાઈ ઉપાધ્યાય, સ્ટેન્ડિંગ કમિટી ચેરમેન જીનલબેન પટેલ, હેલ્થ કમિટી ચેરમેન દિલીપભાઈ પટેલ, સ્વચ્છ ભારત મિશનના કોઓર્ડિનેટર હંસાબેન પિત્રોડા, IQAC કોઓર્ડિનેટર ડૉ. ગઢાવાલા તેમજ વિદ્યાર્થી સહિત તમામ સ્ટાફમિત્રો ઉપસ્થિત રહ્યા. આ સમગ્ર પ્રસંગ આપણા માનનીય વડાપ્રધાન નરેન્દ્ર મોદીના વિઝન ૨૦૨૭ – સ્વચ્છ ભારત સ્વસ્થ ભારતના સપનાને સાકાર કરવા માટે કોલેજ અને વિદ્યાર્થીઓ દ્વારા કરાયેલ એક નાનો પરંતુ સચોટ અને સંવેદનશીલ પ્રયત્ન હતો. વ્યસ્તતા ને કારણે કાર્યક્રમ માં અનુપસ્થિત હિંમતનગર કેળવણી મંડળના મંત્રી જીતુભાઈ પટેલ, નગરપાલિકાના ચીફ ઓફિસર ઉપેન્દ્રભાઈ ગઢવી અને માણસા નગર પાલિકાના ચીફ ઓફિસર સતીશ પટેલ દ્વારા શુભેચ્છાઓ પાઠવવામાં આવી. પરંતુ સમાજ પ્રત્યેની જવાબદારી, માનવતા અને સેવા ભાવનાનો જીવંત સંકલ્પ હતો. કોલેજના વિદ્યાર્થી દ્વારા શિક્ષણની સાથે સાથે સ્વચ્છ સુરક્ષા— સમાજ પ્રત્યેની જવાબદારી સ્વીકારી સેવાનો ઉત્સવ તેમના જીવનમાં અવિસ્મરણીય દિવસ થઈ ગયો.

Principal

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