	<p align="center"><b>S J P N Trust's</b>  <b>Hirasugar Institute of Technology, Nidasoshi</b>          Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi          Recognized under 2(f) &amp; 12B of UGC Act, 1956          Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA: CSE &amp; ECE</p>	<b>IQAC</b>
		<b>Minutes of Meetings</b>
		<b>AY:2022-23</b>

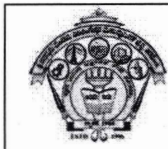
## ***Internal Quality Assurance Cell (IQAC)***

### **Minutes/Proceedings of Meetings**

*(AY: 2018-19 to Till date)*

### **IQAC Minutes of Meetings/Proceedings**

<b>AY</b>	<b>IQAC Meeting Link in the institute Website</b>
2022-23	<a href="https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings202223.pdf">https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings202223.pdf</a>
2021-22	<a href="https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings202122.pdf">https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings202122.pdf</a>
2020-21	<a href="https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings202021.pdf">https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings202021.pdf</a>
2019-20	<a href="https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings201920.pdf">https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings201920.pdf</a>
2018-19	<a href="https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings201819.pdf">https://hsit.ac.in/NAAC/IQACMeetings/IQACMeetings201819.pdf</a>



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IQAC

Action Taken  
Reports

AY:2022-23

Ref: NDS/HSIT/IQAC/Reports/2023-24/497

Date: 25 JAN 2024

**Internal Quality Assurance Cell (IQAC)****Minutes/Proceedings of Meetings and Action Taken Reports**  
(AY: 2018-19 to Till date)

S.N.	IQAC Meeting No.	Date	Minutes/Proceedings	Action Taken
1.	23	20 <sup>th</sup> Jan. 2024	Decided to facilitate the more no. of activities during the current academic years to enhance the employability skills among the students and to increase the placement percentage	The Technical and Aptitude trainings are conducted by the training and placement cell and associations of the departments. The personality development and career guidance programmes are conducted by the TP Cell and by the departments.
2.	23	20 <sup>th</sup> Jan. 2024	In view to develop faculty members as per the expectations in the NEP-2020 based revised university curriculum, it is decided to conduct review and verification meeting on the Staff Appraisal Forms (SAFs) of AY: 2022-23 submitted by the faculty members	The SAFs were reviewed and verified. The few faculty members are advised and suggested to improve in the non-performing parameters by the committee.
3.	23	20 <sup>th</sup> Jan. 2024	It is decided to motivate and facilitate all faculty members at the department level for preparations of best, competitive and relevant proposals for research grants to establish research and innovation ecosystem at the institute on relevant and emerging areas.	The proposals were prepared by the faculty members on the emerging research and innovation titles and are submitted to the VGST, GoK. The some proposals were shortlisted for online presentation. After presentation one proposal has been selected for Rs. 20 Lakhs
4.	23	20 <sup>th</sup> Jan. 2024	To create health and societal consciousness among the students and staff and sensitize them on relevant issues, it is decided to organize more no. of sports, yoga, social and sensitizing activities in the current academic year.	The NSS, Redcross, UHV and Women Empowerment activities were conducted. The sports and Yoga activities are conducted. AICTE Activities were conducted and reports were prepared by the students and reports are evaluated through students presentations. The students were completed their mini and final year projects and prepared project reports. The reports are evaluated internal and



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				external members through students demonstrations and presentations. Freshers Day has been conducted. III Sem Welcome functions are conducted. Annual gathering and fun-week have organised
5.	23	20 <sup>th</sup> Jan. 2024	In view to promote innovation and entrepreneurship actions in the institute campus, it is decided to conduct entrepreneurship and IPR promotion & awareness activities during the current academic years.	The entrepreneurship and IPR activities are organised.
6.	22	12 <sup>th</sup> Jan. 2024	In view to improve the participation of the students and understand and realize the theoretical concepts and it is decided to make assessment and documentation policies at the department level based on the nature of the activities.	As a part of Continuous Comprehensive Assessment (CCA), the activities are conducted at the department level as per the 2022 and 2021 VTU Scheme of Study. The policies are made at the department level as per the VTU guidelines. All the course coordinators are practicing the policies for holistic development of the students.
7.	22	12 <sup>th</sup> Jan. 2024	It is decided to initiate learner centric and class room dynamics based pedagogies in the classes and laboratories to enhance the learning experience of the students through the pedagogical initiatives and e-resources. Also decided to disseminate the e-resources mentioned in the university's revised curriculum (2021 & 2022 Scheme of Study & Evaluation) and from other sources in the classes and laboratories to the students to understand, realize and analyze emerging and relevant areas and difficult concepts	All the class rooms are connected with internet and LCD projects. The course coordinators using the e-resources and videos in the classroom on regular basis. The pedagogical initiatives and innovative teaching aids are using by course coordinators regularly to address the slow and fast learners. Activities are conducted to improve participative learning.
8.	22	12 <sup>th</sup> Jan. 2024	It is decided to complete the projects, which will attracts sponsorships and awards, published in international journals and conference, patentable etc. in the stipulated period of time. Also decided to make department level policies and guidelines.	Every year students and guide/s are together project proposals as per the departmental policies and proceedings. The synopsis presentation and progress review meetings are organised to guide and suggest the

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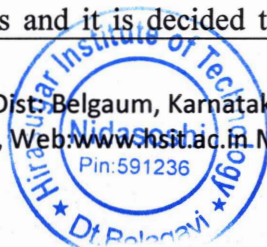
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				<p>students for best projects. Students submitted the synopsis to the KSCST, VTU etc. for sponsorship. Some projects received sponsorship from KSCST and VTU. Some project works of the students are published in the international journals.</p>
9.	22	12 <sup>th</sup> Jan. 2024	<p>In view to promote the participative and cooperative learning among the students, policies and guidelines to conduct, assess and document the internships and technical seminars/activities and it is decided to facilitate and complete the sufficient no. of such events at the department level.</p>	<p>The students undergone the internships as per the VTU CoE and guidelines and are guided by the faculty members. After completion of the internships students submitted the report. The internships are evaluated internal and external members as per the university guidelines and proper rubrics through the students' presentations. Under the guidance of the faculty students prepared a report on relevant and emerging technical topic and it is evaluated through students' presentation with proper rubrics as per university guidelines.</p>
10.	22	12 <sup>th</sup> Jan. 2024	<p>The guidelines to promote R&amp;D activities such as paper publications, organising conferences, fetching research funds, innovative student projects, establishment of research ecosystem, excellencies in relevant and emerging domains at department level and it is decided to make policy guidelines at the department level.</p>	<p>The R&amp;D policies have been made at the department level to promote R&amp;D activities. The R&amp;D and industry attached laboratories were established in the departments. The research articles were published in the international journals and conferences. Some student projects received sponsorships and awards from various agencies.</p>
11.	21	15 <sup>th</sup> Dec. 2023	<p>With reference to the revised VTU 2022 Scheme of Study (Curriculum) in the III semester for the AY:2023-24, the preparations required for successful implementation of the curriculum on coding, ability enhancement and emerging courses and it is decided to</p>	<p>The faculty members are trained to handle emerging and ability enhancement courses. The policies are made at department and institute level for successful implementation of revised VTU curriculum.</p>


*(Signature)*






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	<p style="text-align: center;"><b>Action Taken Reports</b></p>		
	<p style="text-align: center;"><b>AY:2022-23</b></p>		

			made a department level policies in line with the university guidelines time to time.	
12.	21	15 <sup>th</sup> Dec. 2023	With reference to the VTU Circular No.:VTU/BGM/BOS/New UG-PG Prog/2023-24/4865, Dated:13 <sup>th</sup> Dec. 202 regarding quality of questions in SEE concerning COs and RBTLs and in view to achieve higher API and SI and to improve the performance of the students in VTU-SEE, it is decided to practice the similar RBTLs in the CIEs and Rubrics.	The department level policies have been made. The module coordinators are scrutinised (RBTL levels and Marks allotment, pattern etc.) IA test and assignment questions as per the proceedings made at department level.
13.	21	15 <sup>th</sup> Dec. 2023	In the view of successful completion of Teaching-Learning-Evaluation process as per the university guidelines, it is decided to conduct "Academic Audit" by internal and external expertise for further improvements. Also decided to conduct Department Advisory Committee (DAC) and Program Assessment Committee (PAC) meetings at the department level by external senior faculty members, professional body member, industry persons etc., and decided to make department level, competitive & relevant student centric policies for further improvements.	The "Academic Audits" , DAC and PAC Meetings are conducted.
14.	21	15 <sup>th</sup> Dec. 2023	To make pollution free campus and to create energy and environment consciousness among the staff and students, it is decided to conduct "Environment and Green Audits".	"Environment and Green Audits" are conducted.
15.	21	15 <sup>th</sup> Dec. 2023	In order to achieve higher attainment levels of COs-POs-PSOs through direct and indirect methods and to provide best facilities for counseling-mentoring-welfare-office automation-grievance resolution, it is decided to practice ERP and OBE Softwares on regular basis.	ERP and OBE softwares are installed and practising on regular basis
16.	21	15 <sup>th</sup> Dec. 2023	In view of announcement of university's semester end exam (SEE) results, it is decided to assess the attainment of POs and PSOs through direct and indirect methods in the	The indirect methods such as Course End Surveys (CES), Employer and Alumni Surveys are conducted. Attainments of POs and PSOs are


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			prescribed formats such as Faculty Course Assessment Report (FCAR), Course End Survey, Activity etc.	assessed in the FCAR by the respective course coordinators and are checked by module coordinator and verified by the HOD.
17.	20	6 <sup>th</sup> Oct. 2023	With reference to the NEP based VTU 2022 Scheme of Study & Evaluation guidelines it is decided to reform the Teaching-Learning-Evaluation (TLE) process and its documentation.	The faculty diary and IA booklet assessment front pages have been revised as per the revised VTU scheme of study
18.	20	6 <sup>th</sup> Oct. 2023	The roles & responsibilities of important functionaries are finalized and decided to revise the various committee.	The revised committees have been formed along with the responsibilities.
19.	20	6 <sup>th</sup> Oct. 2023	The qualitative parameters of Project Work Phase-I & Internship-02 are discussed and decided to plan and guide the students to receive at least one credential (sponsorship, patent filing/awards & publication in reputed international journal) And decided to facilitate, prepare and guide the students to inculcate report writing and presentation skills.	The synopsis presentations, progress review meetings are conducted and evaluated through proper rubrics by the committee members. Project exhibitions and demonstrations are conducted and evaluated by the external members. The reports of the students' internships are evaluated through the proper rubrics internally and externally as per the VTU guidelines.
20.	19	6 <sup>th</sup> Sept. 2023	With reference to the due date (8 <sup>th</sup> Feb. 2024) of NAAC Cycle-01, Accreditation and to achieve higher grade in Cycle-02 A&A process, it is decided to publish Road Map/Schedule for important activities such as submission of IIQA, SSR, Reviews and Mock Assessment.	The Road-map has been prepared for important phases of Cycle-02 SSR submission and preparations.
21.	19	6 <sup>th</sup> Sept. 2023	In view to improve the Teaching Learning Process, to use innovative pedagogy and to establish best Faculty Performance Appraisal & Development System (FPADS) in the institute and with reference to the NBA Compliances and revised NAAC QIFs, It is decided to revise the policy of students' feedback on Teaching & Learning.	the policy of students' feedback on Teaching & Learning has been revised. The revision of policy is the allotment of "External Observers". All HoDs are suggested to follow the same. The detailed guidelines will be released time-to-time.
22.	19	6 <sup>th</sup> Sept.	In view to enhance the API & SI and	The counseling and mentoring



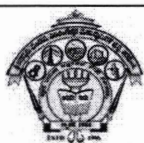
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		2023	getting employment and sustaining in it, it is decided to revise the Counseling and Mentoring 2 policies as below: a) Academic Excellency Counseling & Mentoring Cycle (A-CM Cycle) b) Personality & Career Excellency Counseling & Mentoring (P-CM Cycle)	policies are revised.
23.	19	6 <sup>th</sup> Sept. 2023	In view to implement the OBE and NEP-2020, it is suggested to revise the existing from "Faculty Dairy" to "CO-PO based Faculty Dairy" i.e., TLE Cycle	The faculty diary and IA booklet assessment front pages have been revised as per the revised VTU scheme of study
24.	19	6 <sup>th</sup> Sept. 2023	In order to monitor the improvement in courses and projects, all the course coordinators are suggested to adopt T-L-E documentation policy "One Course/Lab file and Project File"	"One Course/Lab file and Project File" policy has been adopted
25.	19	6 <sup>th</sup> Sept. 2023	In view to promote the participation of students in resolving environmental, energy, society and humanity related issues and problems, it is suggested to prepare "Annual NSS-Calendar of Events" and PO-PSO assessment.	In process
26.	18	18 <sup>th</sup> Aug. 2023	With reference to the NAAC-Institute-Dashboard, the previous assessment years' (2019-20 & 2020-21) AQARs are open for review and edit. Hence decided to review the above said AQARs through criterion and IQAC coordinators of respective assessment year and submit for approval to NAAC office	The AQARs of the assessment years 2019-20 & 2020-21 were revised and submitted on NAAC dashboard and both are accepted by the NAAC.
27.	18	18 <sup>th</sup> Aug. 2023	With reference to the revised guidelines of the NAAC, It is decided to revise the composition of the IQAC committee	The IQAC committee has been revised as per the NAAC guidelines.
28.	18	18 <sup>th</sup> Aug. 2023	With reference to the preparations, documentation and achieving higher grade in the NAAC Cycle-02 Assessment & Accreditation (A&A) process, It is decided to organize a One Day Workshop on the title "Revised NAAC Quality Indicator Framework (QIF) & SSR Submission" by	The One Day Workshop on the title "Revised NAAC Quality Indicator Framework (QIF) & SSR Submission" has been organized successfully.

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			expertise in the November 3 <sup>rd</sup> week 2023	
29.	18	18 <sup>th</sup> Aug. 2023	In view to accelerate the qualitative, outcome based and focused preparations to achieve higher grade in the NAAC-Cycle 02 Assessment & Accreditation process, it is decided to revise the composition of Steering Team for SSR and Peer Team Visit Preparations based on the Key Indicators/Metrics/Key Person of specific domain	The Steering Team has been revised based on the metrics/KIs.
30.	18	18 <sup>th</sup> Aug. 2023	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission and display, feedback collection on Teaching-Learning process and important activities at institute level. Decided to recruit the staff members based on the load and expertise. And as per the norms of the VTU and AICTE.	Institute CoE has been prepared and published in the institute website and displayed on the notice boards and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators. The faculty and instructors are recruited based on the academic and additional workloads at department and institute level. The academic and additional workloads were distributed rationally and based on the expertise and passion in the subjects.
31.	18	18 <sup>th</sup> Aug. 2023	In view to promote R&D activities, it is decided to establish research ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	The proposals are prepared on relevant and emerging areas and submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
32.	18	18 <sup>th</sup> Aug. 2023	In order to attain higher levels of all Programme Outcomes (POs) through Activity Based Learning (ABL), to bridge the University curriculum gaps	The VTU curriculum gaps are identified at department level and the bridging activities are conducted.





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			and to make student ready for industry, it is decided to implement the concept "Gap Identification & Mitigation Cycle (GIM Cycle)"	
33.	18	18 <sup>th</sup> Aug. 2023	In view to promote Research & Development (R&D) in the institute, it is decided to organize International Conference (ICRTET-2023) in the 1 <sup>st</sup> week of December 2023. The coordination work has been assigned to Dr.K.M.Akkoli, Dean (R&D) and Dr.S.N.Topannavar, Dean (Aca).	International Conference on Recent Trends in Engineering and Technology (ICRTET-2023) has been organized successfully. Around 82 papers are presented and published.
34.	17	6 <sup>th</sup> March 2023	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitate to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision-23 has been conducted QUEST-23 has been conducted Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
35.	17	6 <sup>th</sup> March 2023	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission and display, feedback collection on Teaching-Learning process and important activities at institute level. Decided to recruit the staff members based on the load and expertise. And as per the norms of the VTU and AICTE.	Institute CoE has been prepared and published in the institute website and displayed on the notice boards and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators. The faculty and instructors are recruited based on the academic and additional workloads at department and institute level. The academic and additional workloads were distributed rationally and based on the expertise and passion in the subjects.
36.	17	6 <sup>th</sup> March 2023	Decided to conduct "Academic Audit" for the AY:2021-22 by the committee composed of external and internal expertise members	Academic Audits for the AY:2021-22 have been collected by all the department and submitted to the office.
37.	17	6 <sup>th</sup>	Decided to collect and analyze	Facilitated to collect feedbacks

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		March 2023	feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
38.	16	23 <sup>rd</sup> Sept. 2022	To promote participative and experiential learning among the students, it is decided to organize workshops, seminars, industry visits and internships.	Workshops and seminars are conducted at all the departments and the takeaways of the students are assessed to POs and PSOs
39.	16	23 <sup>rd</sup> Sept. 2022	For knowledge transfer/sharing, employment, realization of theoretical concepts and to promote industry institute interactions, it is decided to establish MoUs with external organizations/industry.	The new MoUs are made at the department level and activities are conducted with already established MoUs. The industry supported labs are established for hands on experience and to resolve complex and relevant problems
40.	16	23 <sup>rd</sup> Sept. 2022	It is decided to make rigorous counseling of the absentees for their regularity to the classes	The students are counseled and mentored through their respective faculty mentor.
41.	16	23 <sup>rd</sup> Sept. 2022	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
42.	16	23 <sup>rd</sup> Sept. 2022	Decided to collect and analyze feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	Facilitated to collect feedbacks and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
43.	15	2 <sup>nd</sup> Sept. 2022	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision-23 has been conducted QUEST-23 has been conducted Graduation Day has been organized. Departmental Associations are made plan and conducted activities
44.	15	2 <sup>nd</sup> Sept.	Decided to collect "Academic Audit"	Academic Audits for the



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		2022	for the AY:2020-21 by the committee composed of external and internal expertise members	AY:2020-21 have been collected by all the department and submitted to the office.
45.	15	2 <sup>nd</sup> Sept. 2022	It is decided to prepare AQAR of the assessment year 2021-22	AQAR prepared and submitted to the NAAC
46.	15	2 <sup>nd</sup> Sept. 2022	Decided to collect and analyze feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	Facilitated to collect feedbacks and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
47.	15	2 <sup>nd</sup> Sept. 2022	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
48.	14	25 <sup>th</sup> June. 2022	It decided to verify department level actions and documentation to submit NBA compliance report for continuation of accreditation for further 3 years	The documentation and actions to comply NBA report are verified inter department expertise for further actions.
49.	14	25 <sup>th</sup> June. 2022	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision has been conducted QUEST-22 has been conducted Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
50.	14	25 <sup>th</sup> June. 2022	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
51.	13	5 <sup>th</sup> April 2022	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare



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				departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
52.	13	5 <sup>th</sup> April 2022	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
53.	13	5 <sup>th</sup> April 2022	For knowledge transfer/sharing, employment, realization of theoretical concepts and to promote industry institute interactions, it is decided to establish MoUs with external organizations/industry.	The new MoUs are made at the department level and activities are conducted with already established MoUs. The industry supported labs are established for hands on experience and to resolve complex and relevant problems
54.	13	5 <sup>th</sup> April 2022	To promote R&D work and to increase research publications in the conference proceedings and in the international journals, it is decided to organize International Conference	Due to the technical problem with the VTU CoE of exams, the organization of conference has been postponed, but the faculty members are motivated to participate in the online international conferences.
55.	13	5 <sup>th</sup> April 2022	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
56.	13	5 <sup>th</sup> April 2022	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
57.	12	24 <sup>th</sup> Sept. 2021	It is decided to prepare AQAR of the assessment year 2020-21	AQAR prepared and submitted to the NAAC
58.	12	24 <sup>th</sup> Sept. 2021	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.



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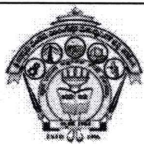
59.	12	24 <sup>th</sup> Sept. 2021	It is decided to motivate faculty for publications and patenting	Motivational talks were organized. Entrepreneurship and IPR activities are conducted
60.	12	24 <sup>th</sup> Sept. 2021	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
61.	12	24 <sup>th</sup> Sept. 2021	In view of holistic development of the students, it is decided to organize value added and certificate programmes at the department level	The value added and certificate programmes were conducted from all the departments
62.	12	24 <sup>th</sup> Sept. 2021	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines
63.	12	24 <sup>th</sup> Sept. 2021	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
64.	12	24 <sup>th</sup> Sept. 2021	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
65.	12	24 <sup>th</sup> Sept. 2021	For knowledge transfer/sharing, employment, realization of theoretical concepts and to promote industry institute interactions, it is decided to establish MoUs with external organizations/industry.	The new MoUs are made at the department level and activities are conducted with already established MoUs.
66.	11	19 <sup>th</sup> Aug. 2020	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
67.	11	19 <sup>th</sup> Aug. 2020	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
68.	11	19 <sup>th</sup> Aug. 2020	In view of holistic development of the students, it is decided to organize value	The value added and certificate programmes were conducted from



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			added and certificate programmes at the department level	all the departments
69.	11	19 <sup>th</sup> Aug. 2020	Decided to conduct "Academic Audit" for the AY:2019-20 by the committee composed of external and internal expertise members	Academic Audits for the AY:2019-20 have been collected by all the department and submitted to the office.
70.	11	19 <sup>th</sup> Aug. 2020	Decided to collect and analyze feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	Facilitated to collect feedbacks and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
71.	11	19 <sup>th</sup> Aug. 2020	For knowledge transfer/sharing, employment, realization of theoretical concepts and to promote industry institute interactions, it is decided to establish MoUs with external organizations/industry.	The new MoUs are made at the department level and activities are conducted with already established MoUs.
72.	11	19 <sup>th</sup> Aug. 2020	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
73.	11	19 <sup>th</sup> Aug. 2020	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
74.	11	19 <sup>th</sup> Aug. 2020	For knowledge transfer/sharing, employment, realization of theoretical concepts and to promote industry institute interactions, it is decided to establish MoUs with external organizations/industry.	The new MoUs are made at the department level and activities are conducted with already established MoUs. The industry supported labs are established for hands on experience and to resolve complex and relevant problems
75.	10	8 <sup>th</sup> Aug. 2020	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback	Institute CoE has been prepared and published in the institute website and displayed on the





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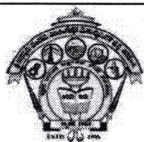
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			collection on Teaching-Learning process and important activities at institute level	notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
76.	10	8 <sup>th</sup> Aug. 2020	It is decided to prepare institute CoE in line with the VTU CoE consist of feedback, IA Tests and IA Marks submission schedule. Also decided to prepare course plans (CPs) for each course by course coordinator.	Institute CoE has been prepared in line with the VTU CoE and also CPs are prepared by the respective course coordinators and both are circulated to the students and published on the institute website.
77.	10	8 <sup>th</sup> Aug. 2020	It is decided to organize 4 <sup>th</sup> international conference-2020	Could not conduct due to COVID-19
78.	10	8 <sup>th</sup> Aug. 2020	Decided to organize industry visits, seminars and internships	Could not conduct due to COVID-19
79.	10	8 <sup>th</sup> Aug. 2020	Decided to conduct Graduation Day-2020	Could not conduct due to COVID-19
80.	10	8 <sup>th</sup> Aug. 2020	Decided to conduct AICTE Sponsored 4-days workshop on "Basics of MAT Lab and Simulink"	Online workshop Conducted during 19 <sup>th</sup> -22 <sup>nd</sup> Spt. 2019
81.	10	8 <sup>th</sup> Aug. 2020	Decided to conduct workshops on "PCB Design and Testing", "Python Programming", Design and Simulation of Micro strips Antenna", "CATIA and GD&T"	Conducted
82.	10	8 <sup>th</sup> Aug. 2020	Decided to conduct awareness programme on "Energy Conservation"	Conducted
83.	09	6 <sup>th</sup> Feb. 2020	It is decided to prepare institute CoE in line with the VTU CoE consist of feedback, IA Tests and IA Marks submission schedule. Also decided to prepare course plans (CPs) for each course by course coordinator.	Institute CoE has been prepared in line with the VTU CoE and also CPs are prepared by the respective course coordinators and both are circulated to the students and published on the institute website.
84.	09	6 <sup>th</sup> Feb. 2020	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision-2020 has been conducted QUEST-20 has been conducted Graduation Day has been organized. Sambhrama-2020 has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are

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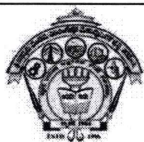
				made plan and conducted activities
85.	09	6 <sup>th</sup> Feb. 2020	For knowledge transfer/sharing, employment, realization of theoretical concepts and to promote industry institute interactions, it is decided to establish MoUs with external organizations/industry.	The new MoUs are made at the department level and activities are conducted with already established MoUs. The industry supported labs are established for hands on experience and to resolve complex and relevant problems
86.	09	6 <sup>th</sup> Feb. 2020	Decided to conduct "Academic Audit" for the AY:2018-19 by the committee composed of external and internal expertise members	Academic Audits for the AY:2018-19 have been collected by all the department and submitted to the office.
87.	09	6 <sup>th</sup> Feb. 2020	Decided to collect and analyze feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	Facilitated to collect feedbacks and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
88.	08	6 <sup>th</sup> Jan 2020	Decided to conduct IA Tests centrally	Conducted centrally
89.	08	6 <sup>th</sup> Jan 2020	Decide to submit research fund proposals to VGST, GoK	Proposals were submitted from all the department out of them 2 were selected for Rs. 40lakhs
90.	08	6 <sup>th</sup> Jan 2020	Decided to organize seminars, internships and industrial visits	Organized seminars, internships and industrial visits
91.	08	6 <sup>th</sup> Jan 2020	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines
92.	08	6 <sup>th</sup> Jan 2020	It is decided to conduct VGST sponsored FDP on "Machine Learning and Data Analytics"	The FDP has been conducted on 8 <sup>th</sup> -11 <sup>th</sup> Jan 2020
93.	08	6 <sup>th</sup> Jan 2020	Decided to organize professional body activities at institute level	The professional body activities were organized by the departments
94.	07	3 <sup>rd</sup> Aug. 2019	It is decided to prepare institute CoE in line with the VTU CoE consist of feedback, IA Tests and IA Marks submission schedule. Also decided to prepare course plans (CPs) for each course by course coordinator. Decided to prepare class time tables by departmental Time-Table coordinators	Institute CoE has been prepared in line with the VTU CoE and also CPs are prepared by the respective course coordinators and both are circulated to the students and published on the institute website. The Time tables were prepared and displayed on the notice board well in advance and circulated to the students and staff for further

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				actions
95.	07	3 <sup>rd</sup> Aug. 2019	Decided to collect "Academic Audit" for the AY:2018-19 by the committee composed of external and internal expertise members	Academic Audits for the AY:2018-19 have been collected by all the department and submitted to the office.
96.	07	3 <sup>rd</sup> Aug. 2019	It is decided to distribute the academic and additional workloads to the faculty and instructors	Workloads were distributed as per the VTU and AICTE norms
97.	07	3 <sup>rd</sup> Aug. 2019	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
98.	07	3 <sup>rd</sup> Aug. 2019	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
99.	07	3 <sup>rd</sup> Aug. 2019	It is decided to prepare AQAR of the assessment year 2018-19	AQAR prepared and submitted to the NAAC
100.	07	3 <sup>rd</sup> Aug. 2019	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission, feedback collection on Teaching-Learning process and important activities at institute level	Institute CoE has been prepared and published in the institute website and displayed on the notice board and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators.
101.	07	3 <sup>rd</sup> Aug. 2019	It is decided to motivate faculty for publications and patenting	Motivational talks were organized. Entrepreneurship and IPR activities are conducted
102.	07	3 <sup>rd</sup> Aug. 2019	Decided to organize seminars, internships and industrial visits	Organized seminars, internships and industrial visits
103.	06	20 <sup>th</sup> July 2019	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission and display, feedback collection on Teaching-Learning process and important activities at institute level. Decided to recruit the staff members based on the load and expertise. And as per the norms of the VTU and AICTE.	Institute CoE has been prepared and published in the institute website and displayed on the notice boards and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators. The faculty and instructors are recruited based on the academic and additional workloads at department and institute level.


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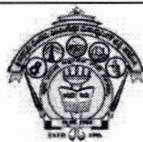
				The academic and additional workloads were distributed rationally and based on the expertise and passion in the subjects.
104.	06	20 <sup>th</sup> July 2019	Decided to conduct and document the counseling and mentoring of the students on two parameters: 1) Academic Performance 2) Psychology and Personality	Academic and Personality/psychology counseling and mentoring have been conducted based on the CIE performance and additional skills inculcated by the students. The central counseling were also conducted for critical cases.
105.	06	20 <sup>th</sup> July 2019	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision- A project exhibition of all nearby polytechnic students has been conducted QUEST-A national level technical activities and competitions were conducted Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
106.	06	20 <sup>th</sup> July 2019	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
107.	06	20 <sup>th</sup> July 2019	In view to promote R&D activities, it is decided to establish research ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	The proposals are prepared on relevant and emerging areas and submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
108.	06	20 <sup>th</sup> July	It is decided to conduct "Induction	The "Induction programme" has



	<p style="text-align: center;"><b>S J P N Trust's</b>  <b>Hirasugar Institute of Technology, Nidasoshi</b>          Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi          Recognized under 2(f) &amp; 12B of UGC Act, 1956          Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA: CSE &amp; ECE</p>		<b>IQAC</b>
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		2019	Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	been conducted as per the university CoE and guidelines
109.	06	20 <sup>th</sup> July 2019	Decided to conduct "Academic Audit" for the AY:2018-19 by the committee composed of external and internal expertise members	Academic Audits for the AY:2019-20 have been collected by all the department and submitted to the office.
110.	06	20 <sup>th</sup> July 2019	Decided to collect and analyze feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	Facilitated to collect feedbacks and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
111.	06	20 <sup>th</sup> July 2019	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
112.	06	20 <sup>th</sup> July 2019	In view of holistic development of the students, it is decided to organize value added and certificate programmes at the department level	The value added and certificate programmes were conducted from all the departments
113.	05	28 <sup>th</sup> Jan. 2019	It is decided to motivate faculty for publications and patenting	Motivational talks were organized. Entrepreneurship and IPR activities are conducted
114.	05	28 <sup>th</sup> Jan. 2019	Decided to organize seminars, internships and industrial visits	Organized seminars, internships and industrial visits
115.	05	28 <sup>th</sup> Jan. 2019	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission and display, feedback collection on Teaching-Learning process and important activities at institute level. Decided to recruit the staff members based on the load and expertise. And as per the norms of the VTU and AICTE.	Institute CoE has been prepared and published in the institute website and displayed on the notice boards and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators. The faculty and instructors are recruited based on the academic and additional workloads at department and institute level. The academic and additional workloads were distributed rationally and based on the expertise and passion in the subjects.
116.	05	28 <sup>th</sup> Jan.	Decided to conduct and document the	Academic and





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		2019	counseling and mentoring of the students on two parameters: 1) Academic Performance 2) Psychology and Personality	Personality/psychology counseling and mentoring have been conducted based on the CIE performance and additional skills inculcated by the students. The central counseling were also conducted for critical cases.
117.	05	28 <sup>th</sup> Jan. 2019	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision- A project exhibition of all nearby polytechnic students has been conducted QUEST-A national level technical activities and competitions were conducted Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
118.	05	28 <sup>th</sup> Jan. 2019	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
119.	04	30 <sup>th</sup> Nov. 2018	In view to promote R&D activities, it is decided to establish research ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	The proposals are prepared on relevant and emerging areas and submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
120.	04	30 <sup>th</sup> Nov. 2018	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines
121.	04	30 <sup>th</sup> Nov. 2018	It is decided to distribute the academic and additional workloads to the faculty and instructors	Workloads were distributed as per the VTU and AICTE norms
122.	04	30 <sup>th</sup> Nov. 2018	It is decided to verify the Self Appraisal Forms (SAFs) submitted by	SAFs were collected and verified in the meeting and the suggestions

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			the faculty members by the committee consist of management representative, Principal and HOD	are given for further improvements.
123.	04	30 <sup>th</sup> Nov. 2018	Decided to collect feedback on teaching-learning and facilities	Feedbacks are collected, analyzed and actions were taken based on the recommendations and intimated to the university at all departments.
124.	04	30 <sup>th</sup> Nov. 2018	It is decided to motivate faculty for publications and patenting	Motivational talks were organized. Entrepreneurship and IPR activities are conducted
125.	04	30 <sup>th</sup> Nov. 2018	Decided to organize seminars, internships and industrial visits	Organized seminars, internships and industrial visits
126.	04	30 <sup>th</sup> Nov. 2018	Decided to prepare institute CoE in line with the University CoE covering IA Tests, marks submission and display, feedback collection on Teaching-Learning process and important activities at institute level. Decided to recruit the staff members based on the load and expertise. And as per the norms of the VTU and AICTE.	Institute CoE has been prepared and published in the institute website and displayed on the notice boards and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators. The faculty and instructors are recruited based on the academic and additional workloads at department and institute level. The academic and additional workloads were distributed rationally and based on the expertise and passion in the subjects.
127.	03	3 <sup>rd</sup> Aug. 2018	Decided to conduct and document the counseling and mentoring of the students on two parameters: 1) Academic Performance 2) Psychology and Personality	Academic and Personality/psychology counseling and mentoring have been conducted based on the CIE performance and additional skills inculcated by the students. The central counseling were also conducted for critical cases.
128.	03	3 <sup>rd</sup> Aug. 2018	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the	Technovision- A project exhibition of all nearby polytechnic students has been conducted. QUEST-A national level technical activities and competitions were conducted

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			students	Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
129.	03	3 <sup>rd</sup> Aug. 2018	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
130.	03	3 <sup>rd</sup> Aug. 2018	In view to promote R&D activities, it is decided to establish research ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	The proposals are prepared on relevant and emerging areas and submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
131.	03	3 <sup>rd</sup> Aug. 2018	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines
132.	03	3 <sup>rd</sup> Aug. 2018	In view to promote R&D activities, it is decided to establish research ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	The proposals are prepared on relevant and emerging areas and submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
133.	02	28 <sup>th</sup> May 2018	It is decided to motivate faculty for publications and patenting	Motivational talks were organized. Entrepreneurship and IPR activities are conducted
134.	02	28 <sup>th</sup> May 2018	Decided to organize seminars, internships and industrial visits	Organized seminars, internships and industrial visits
135.	02	28 <sup>th</sup> May 2018	Decided to prepare institute CoE in line with the University CoE covering	Institute CoE has been prepared and published in the institute





S J P N Trust's

**Hirasugar Institute of Technology, Nidasoshi**

Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi

Recognized under 2(f) &amp; 12B of UGC Act, 1956

Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA: CSE &amp; ECE

IQAC

Action Taken  
Reports

AY:2022-23

			IA Tests, marks submission and display, feedback collection on Teaching-Learning process and important activities at institute level. Decided to recruit the staff members based on the load and expertise. And as per the norms of the VTU and AICTE.	website and displayed on the notice boards and also circulated to HODs and students through WhatsApp groups to prepare departmental/association CoE, Class Time-Table and lesson plans of course coordinators. The faculty and instructors are recruited based on the academic and additional workloads at department and institute level. The academic and additional workloads were distributed rationally and based on the expertise and passion in the subjects.
136.	02	28 <sup>th</sup> May 2018	Decided to conduct and document the counseling and mentoring of the students on two parameters: 1) Academic Performance 2) Psychology and Personality	Academic and Personality/psychology counseling and mentoring have been conducted based on the CIE performance and additional skills inculcated by the students. The central counseling were also conducted for critical cases.
137.	02	28 <sup>th</sup> May 2018	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitate to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision- A project exhibition of all nearby polytechnic students has been conducted. QUEST-A national level technical activities and competitions were conducted. Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
138.	02	28 <sup>th</sup> May 2018	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
139.	01	12 <sup>th</sup> March	In view to promote R&D activities, it is decided to establish research	The proposals are prepared on relevant and emerging areas and

Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 591 236

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IQAC

Action Taken  
Reports


AY:2022-23

		2018	ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
140.	01	12 <sup>th</sup> March 2018	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines
141.	01	12 <sup>th</sup> March 2018	It is decided to organize institute level activities to promote participative learning among the students. Also decided to facilitated to conduct activities at department level to enhance participative learning and to create competitiveness among the students	Technovision- A project exhibition of all nearby polytechnic students has been conducted QUEST-A national level technical activities and competitions were conducted Graduation Day has been organized. The students are enjoyed "Fun Week" with various cultural and social activities. Departmental Associations are made plan and conducted activities
142.	01	12 <sup>th</sup> March 2018	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
143.	01	12 <sup>th</sup> March 2018	In view to promote R&D activities, it is decided to establish research ecosystem in relevant areas, it is decided to submit the proposals for grants to the various agencies such as VGST, AICTE, DST etc. Also decided to motivate the students to submit the synopsis for synopsis to KSCST, VTU and Shristi etc.	The proposals are prepared on relevant and emerging areas and submitted to the various agencies. Many student synopses were selected for sponsorship from KSCST and VTU and some projects received awards in the project exhibitions conducted by various organizations. Two VGST proposals were selected for grant.
144.	01	12 <sup>th</sup> March 2018	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines

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	<b>S J P N Trust's</b> <b>Hirasugar Institute of Technology, Nidasoshi</b> Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE & ECE		<b>IQAC</b>
			<b>Action Taken Reports</b>
			<b>AY:2022-23</b>

145.	01	12 <sup>th</sup> March 2018	It is decided to conduct "Induction Programme" for 1 <sup>st</sup> year students as per the VTU and AICTE guidelines	The "Induction programme" has been conducted as per the university CoE and guidelines
146.	01	12 <sup>th</sup> March 2018	Decided to collect and analyze feedback on curriculum and facilities by from all stakeholders. Also decided to take actions based on the recommendations of the analysis report and decided to inform to the university for further actions.	Facilitated to collect feedbacks and are analyzed. Based on the recommendations of the analysis, the actions are taken and whole process has been informed to the VTU authorities.
147.	01	12 <sup>th</sup> March 2018	It is decided to verify the Self Appraisal Forms (SAFs) submitted by the faculty members by the committee consist of management representative, Principal and HOD	SAFs were collected and verified in the meeting and the suggestions are given for further improvements.
148.	01	12 <sup>th</sup> March 2018	In view of holistic development of the students, it is decided to organize value added and certificate programmes at the department level	The value added and certificate programmes were conducted from all the departments

  
 Dr.S.N.Topannavar  
 IQAC Coordinator



  
 Dr.S.C.Kamate  
 Principal  
**PRINCIPAL**  
**Hirasugar Institute of Technology**  
**NIDASOSHI-591236**



# Hirasugar Institute of Technology Nidasoshi

## AUDIT REPORT 2022-23



**ENVIRONMENTAL & CIVIL  
ENGINEERING SOLUTIONS**  
ISO 9001: 2015, IEC 17025: 2017





## Editorial

In the Era of global warming and climate change every citizen has to reduce their own carbon foot prints to tackle with the adverse impacts of climate change. A green audit of any academic institution reveals ways in which we can reduce energy consumption, water use and reduction in emission of carbon dioxide in the environment. It is a process to look into and ask ourselves whether we are also contributing to the degradation of the environment and if so, in what manner and how we can minimize this contribution and bring down to zero and preserve our environment for future generation.

Hirasugar Institute of Technology, Nidasoshi administration has already taken a step towards the green approach and conducted green audit of campus in the year 2022-2023. As an outcome of this institute has taken green steps to reduce its carbon foot prints by several means in campus viz. sustainable fittings, tree plantation and green computing in the administration and examination. The responsibility of carrying out the scientific green audit was given to Environmental and Civil Engineering Solutions. The organization has followed the rules and regulation of Ministry of Environment and Forest, Govt. of India and Central Pollution Control Board, New Delhi.

A questionnaire was prepared based on the guidelines and format of CPCB, New Delhi to conduct green audit. The information related to consumption of resources like water, electricity and handling of solid and hazardous waste was collected in the formats from main building support services and departments. The data collected was grouped and was tabulated in Excel sheets and analysed. The graphs of the analysed data were prepared for getting quick idea of the status. Interpretation of the overall outcomes was made which incorporates primary and secondary data, references and interrelations within. Final report preparation was carried out using this interpretation to prepare environment management plan of institute for next two years.

During the preparation of the Audit Report Audit Report Hon. Principal and Vice principal, Dean IQAC encouraged us with their full support. IQAC and other officers of the institute also gave support to carry out this work. We also thank all Heads of the departments and the Co-ordinators gave full co-operation.

**Nikhil N. Kamble**  
(C.E.O and Head)

**Environmental and Civil  
Engineering Solutions**

## Acknowledgement

We express our gratitude for calling upon us for this audit, mainly the Principal and all other staff members, who were ever helpful and supported us with all the inputs needed for this audit. We thank all the teaching, non-teaching and students for helping us in conducting this audit.

### Green Audit Team

**Mr. Nikhil N. Kamble**

PhD (Sustainability), M. Tech. (Env. Eng.)

**Mr. Aditya P. Mankar**

M. Tech. (Env. Eng.)

**Miss. Maithilee N. Kamble**

M.B.A, B. Tech. (Mech. Eng.)

**Mrs. Seema N. Kamble**

Director, ECS, B. E. (Electrical)

### Institutional Audit Committee

**Dr. S. C. Kamate**

(Principal)

**Prof. S. S. Patil**

(Convener)

**Dr. S. N. Toppannavar**

(IQAC Coordinator)

**Prof. H. R. Zinage**

(Co-Convener)



## **1. Introduction:**

The modernization and industrialization are the two important outputs of twentieth century which have made human life more luxurious and comfortable. Simultaneously, they are responsible for voracious use of natural resources, exploitation of forests and wildlife, producing massive solid waste, polluting the scarce and sacred water resources and finally making our mother Earth ugly and inhospitable. Today, people are getting more familiar to the global issues like global warming, greenhouse effect, ozone depletion and climate change etc. Now, it is considered as a final call by mother Earth to walk on the path of sustainable development. The time has come to wake up, unite and combat together for sustainable environment.

Considering the present environmental problems of pollution and excess use of natural resources, Hon. Prime Minister, Shri. Narendra Modiji has declared the Mission of Swachh Bharat Abhiyan. Also, University Grants Commission has mentioned “Green Campus, Clean Campus” mission mandatory for all higher educational institutes. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

Green Audit is the most efficient ecological tool to solve such environmental problems. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. Through this process the regular environmental activities are monitored within and outside of the concerned sites which have direct and indirect impact on surroundings. Green audit can be one of the initiative for such institutes to account their energy, water resource use as well as wastewater, solid waste, E-waste, hazardous waste generation. Green Audit process can play an important role in promotion of environmental awareness and sensitization about resource use. It can create consciousness towards ecological values and ethics. Through green audit one can get direction about how to improve the condition of environment.

### **1.1 Need of audit:**

Green auditing is the process of identifying and determining whether institutions practices are eco-friendly and sustainable. Traditionally, we are good and efficient users of natural resources. But over the period of time excess use of resources like energy, water, chemicals are become habitual for everyone especially, in common areas. Now, it is necessary to check

whether our processes are consuming more than required resources? Whether we are handling waste carefully? Green audit regulates all such practices and gives an efficient way of natural resource utilization. In the era of climate change and resource depletion it is necessary to verify the processes and convert it in to green and clean one. Green audit provides an approach for it. It also increases overall consciousness among the people working in institution towards an environment.

### **1.2 Goals of audit:**

Institute has conducted a audit with specific goals as:

1. Identification and documentation of green practices followed by college.
2. Identify strength and weakness in green practices.
3. Conduct a survey to know the ground reality about green practices.
4. Analyse and suggest solution for problems identified from survey.
5. Assess facility of different types of waste management.
6. Increase environmental awareness throughout campus.
7. Identify and assess environmental risk.
8. Motivates staff for optimized sustainable use of available resources.
9. The long term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

### **1.3 Objectives of Audit:**

1. To examine the current practices which can impact on environment such as of resource utilization, waste management etc.
2. To identify and analyse significant environmental issues.
3. Setup goal, vision and mission for Green practices in campus.
4. Establish and implement Environmental Management in various departments.
5. Continuous assessment for betterment in performance in green practices and its evaluation.
6. To prepare an Environmental Statement Report on green practices followed by different departments, support services and administration building.



#### **1.4 NAAC criteria VII Environmental Consciousness:**

Institutes are playing a key role in development of human resources worldwide. Higher education institutes campus run various activities with aim to percolate the knowledge along with practical dimension among the society. Likewise different technological problems higher education institutes also try to give solution for issues related to environment. Different types of evolutionary methods are used to assess the problem concerning environment. It includes Environmental Impact Assessment (EIA), Social Impact Assessment (SIA), Carbon Footprint Mapping, Green audit etc

National Assessment and Accreditation Council (NAAC) which is a self-governing organization that declares the institutions as Grade according to the scores assigned at the time of accreditation of the institution. The intention of green audit is to upgrade the environmental condition inside and around the institution. It is performed by considering environmental parameters like water and wastewater accounting, energy conservation, waste management, air, noise monitoring etc. for making the institution more eco-friendly.

Students are the major strength of any academic institution. Practicing green actions in any educational institution will inculcate the good habit of caring natural resources in students. Many environmental activities like plantation and nurturing saplings and trees, Cleanliness drives, Bird watching camps, No vehicle day, Rain water harvesting, etc. will make the students good citizen of the country. Through Green Audit, higher educational institutions can ensure that they contribute towards the reduction of Global warming through Carbon Footprint reduction measures.

#### **1.5 Benefits of Green Audit to an Educational Institute:**

There are many advantages of green audit to an Educational Institute:

1. It would help to protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Find out the prevailing and forthcoming complications
4. Empower the organization to frame a better environmental performance.
5. It portrays good image of institution through its clean and green campus.

## 2. Overview of Institute:

Hirasugar Institute of Technology, Nidasoshi was established in the year of 1996. Institute has huge area of 48.20 acres and has been serving the mankind in the field of Engineering and technology.



The landscaped grounds of college are widely admired for their beauty. The most valuable investment any educational institution can make is “Nurturing Future Leaders”. With the continuous rise in expectation of essential leadership standards, the institute has torch bearers have taken a responsibility for this investment to nurture the NextGen leaders with a vision to bridge the existing skill gap. With a firm step forward to attain an academic excellence, several Centres of Excellence, computer labs, and industry-academia associations has been setup at the College in association with the top leaders. The College believes that its primary stakeholders are the students. All aspects of education focus on the core values of contributing to national development while fostering global competencies among students. The College admits students from all social milieus and empowers them through intensive mentoring and counselling to face the challenges of life and become responsible and sensitized citizens of the country.



The institution came into existence in the year 1996 with the sole purpose of providing quality technical education in various disciplines of engineering. Since then the growth of the Institute has been guided by the proactive response to the fast changing world of technology.

The institute is approved by All India Council for Technical Education, New Delhi (AICTE, New Delhi) and is affiliated to Visvesvaraya Technological University, Belgaum (VTU, Belgaum).

Hirasugar Institute of Technology (HIT), Nidasoshi offers 4 years full time Bachelor of Engineering (B.E.) degree courses in various disciplines as mentioned below:

### **UG Courses**

- Computer Science & Engineering
- Electronics & communication Engineering
- Electrical & Electronics Engineering
- Mechanical Engineering
- Civil Engineering

### **Research Centre**

- Mechanical Engineering
- Computer Science & Engineering
- Electronics & Communication Engineering
- Electrical & Electronics Engineering
- Engineering Chemistry

The Institute's main objective is to provide effective technical education and make the students to become better citizens and accomplished technocrats of our nation. It also helps students to achieve success in their life by helping the students to get recruited into various national and multinational organizations.

### **Our Vision**

- "To be a preferred institution in Engineering Education by achieving excellence in teaching and research and to remain as a source of pride for its commitment to holistic development of individual and society"

## Our Mission

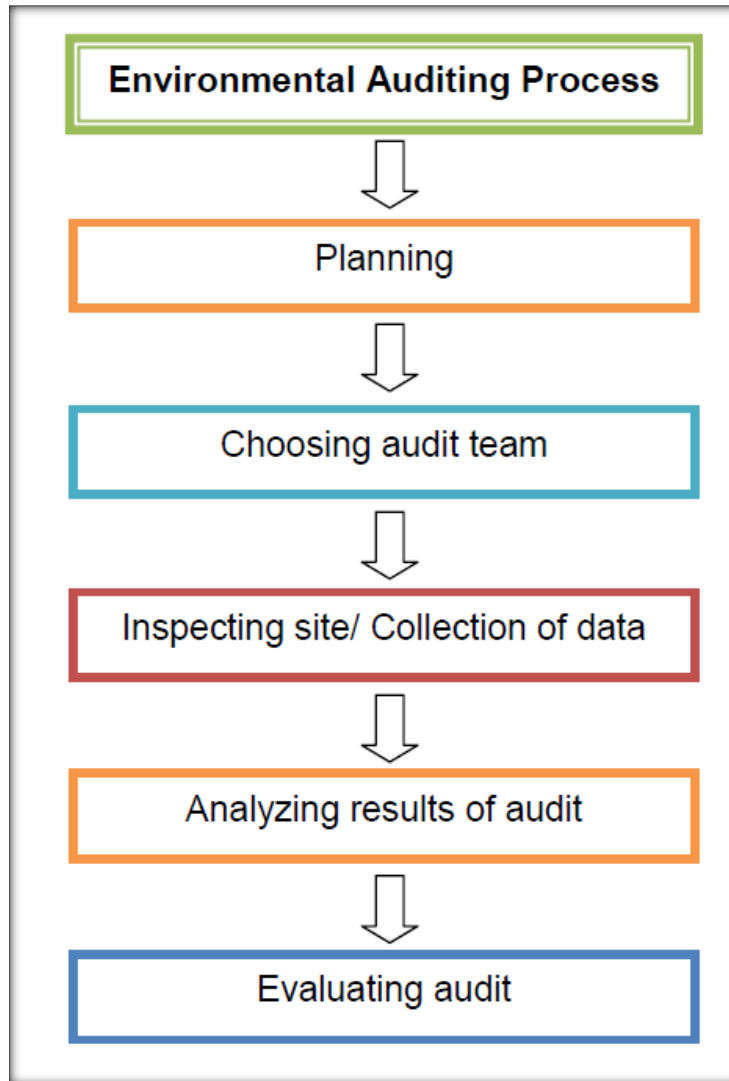
- "To continuously strive for the overall development of students, educating them in a state of the art infrastructure, by retaining the best practices, people and inspire them to imbibe real time problem solving skills, leadership qualities, human values and societal commitments, so that they emerge as competent professionals"

## Core values:

- **Holistic Development:** The Students are educated in a spiritual atmosphere under the blessings of His Holiness Mahaswamiji of Shri Math by adopting self-service, participative & cooperative learning and leadership practices along with academics.
- **Student Centric Learning:** To create student centric learning atmosphere by adopting experimental learning, mini projects, students seminars, internship program, industrial visits, technical competitions, project seminars, carrier guidance activities and extracurricular activities.
- **Centre of Excellence:** To develop a centre of excellence in providing education in the field of Engineering and Technology to produce technically competent and socially responsible Engineering professionals.
- **Promoting prosperity:** The sole objective is to provide Engineering Education to the rural youth of this region for prosperous carrier and development of society.
- **Environmental Consciousness:** Students are educated to make optimum use of environmental resources like Soil/Land, Water and conserve the energy so that they can keep the campus clean, green & pollution free.



### 3. Methodology:



#### 3.1 Audits to be carried out:

- Green and carbon footprint audit
- Energy audit
- Environmental audit
  - Water audit
  - Wastewater audit
  - Solid waste audit
  - Ambient noise audit
  - Ambient air audit





## **4. Green and Carbon footprint audit:**

Green Audit is the most efficient ecological tool to solve such environmental problems. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. Through this process the regular environmental activities are monitored within and outside of the concerned sites which have direct and indirect impact on surroundings. Green audit can be one of the initiative for such institutes to account their energy, water resource use as well as wastewater, solid waste, E-waste, hazardous waste generation. Green Audit process can play an important role in promotion of environmental awareness and sensitization about resource use. It can create consciousness towards ecological values and ethics. Through green audit one can get direction about how to improve the condition of environment.

Carbon is the basis of life on mother Earth. It is incorporated into the plants through photosynthesis, consumed by animal species through the food, presents in the form of carbon dioxide ( $\text{CO}_2$ ) the atmosphere, locked into the rocks as limestone and compressed into the different fossil fuels such as coal and oil. As  $\text{CO}_2$  level in the atmosphere continue to increase, most climate designs or project that the oceans of the world and trees will keep soaking up more than half  $\text{CO}_2$ . The plants on land and in the sea, taken up carbon by over many years increased the percentage discharged during decay, and this increased carbon became locked away as fossil fuels beneath the surface of the planet. The starting of the 21st century brought growing concern about global warming, climate change, food security, poverty and population growth. In the 21st century more carbon has been released into the atmosphere than that has been absorbed.  $\text{CO}_2$  is a principle component causing global warming. Atmospheric carbon dioxide levels have increased to 40 % from preindustrial levels to more than 390 parts per million  $\text{CO}_2$ . On this background it is a need of time to cover the research areas interrelated with climate change.

### **4.1 Green Cover:**

Hirasugar Institute of Technology, Nidasoshi has got a huge green cover and has almost 20 species of vegetation inside the campus. The institute has 2.5 acres of campus and most of this is covered by green area. They have huge plantations along with variation in species Greenery is maintained well by the institute. .



*Figure 4-1 Hirasugar Institute of Technology, Nidasoshi Campus*

Institute has taken huge efforts to develop its green cover. The institute has about 5.56 acres of green cover. In the vicinity of the institute there are about approximately 601 fully grown trees and more than a 88 growing plants. The below table shows some of the common tree species found.

Species	Count	Species	Count
Pongame oil tree	60	Tamrind Tree	30
Mango tree	60	Blue berry(Jamun)	25
Coconut	15	Alma tree	4
Neem tree	80	Custered Apple	10
Banayan tree	25	Cherry	45
Bamboo tree	5	Ashok tree	30
Fig tree	15	Sandalwood Tree	15
Rubber tree	4	Rudrakshi Tree	4
Curry leaves tree	3	Champk Tree	15
Guava tree	36	Jack fruit Tree	5
Pongame oil tree	60	Tamrind Tree	30
Almond Tree	30	Cycas Tree	10
Glorious Tree	10	Teak tree	60



Mostly there are trees of Mango, cherry and neem etc. Due to this the institute has high carbon sequesterial values. Considering the vicinity some dry plants were observed to approximately about 3. Plants absorb sunlight, 50% is absorbed and 30% reflected so this helps to create a cooler and more pleasant climate through a 3°C temperature reduction in the vicinity. This has also led to increase in biodiversity as more than 18 species of birds were observed. Some of the common birds were viz. Sparrow, wild parrots, little stint, black kite etc.

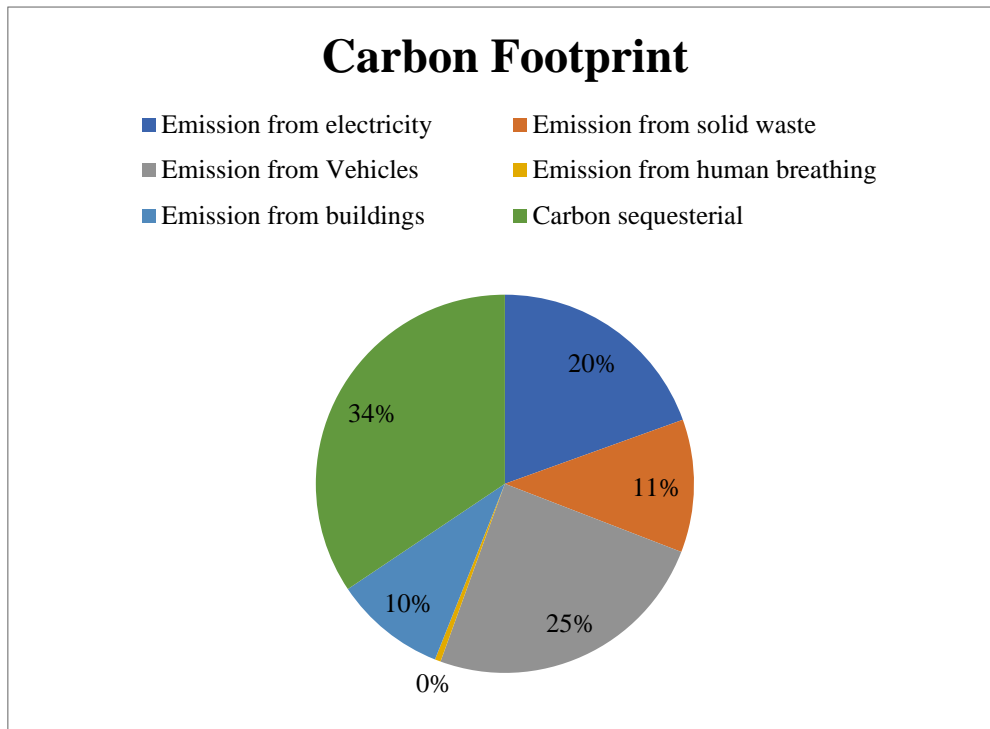
#### 4.2 Carbon Footprint Audit:

Institute has estimated its carbon footprint by factor methodology. Various factors were used to estimate the carbon emissions from Consumption of electricity, generation of solid waste, use of vehicles in campus, carbon emissions due to human breathing and emissions from buildings. At last they have also calculated Carbon sequesterial value i.e. carbon that is absorbed by the plants.

Sr. No.	Section	Emission
1	Emission from electricity	72151.543 kg CO <sub>2</sub> eq.
2	Emission from solid waste	8253.815 kg CO <sub>2</sub> eq.
3	Emission from Vehicles	3720.900 Kg CO <sub>2</sub> eq.
4	Emission from human breathing	41.200 tons of CO <sub>2</sub> eq.
5	Emission from buildings	8055.400 kg CO <sub>2</sub> eq.
6	Carbon sequesterial	3795.000 kg CO <sub>2</sub> eq.

Hence as per the calculation the carbon emission for electricity is 72151.543 kg CO<sub>2</sub> eq. secondly considering emissions from human breathing; the institute has total 727 students and staff. Considering all the staff viz. junior teachers, senior teachers, Non grant, grant CHB they are total of 136. The staff's works for about averagely 6 hours a day in the institute and the students are present for 5 hours averagely daily. Vehicles emit significant amount of gases in environment and the institute has various parking sections in the campus. It was found that averagely 69 vehicles entered the institute daily and travel about 200 m of distance from the gate. Cars also enter the institute and as per observation 10 cars are observed daily. Hence, Overall the institute emits 3720.90 Kg CO<sub>2</sub> eq. Solid waste is very important as it emits significant amount of carbon through it. Institute has a good solid waste management system. Hence the institute develops about 4700 kg of waste daily in both the form of wet and dry. Overall for a year the generation is about 8253.815 kg CO<sub>2</sub> eq. Buildings play an

important role in carbon contribution. During the construction operation and use phase they emit significant amount of carbon. Hence considering total built-up area the carbon emissions could be evaluated. After the estimation the total built-up area observed was approximately about 325220.79 sq. ft. and the carbon emission were 8055.40 kg CO<sub>2</sub> eq. Carbon sequesterial in important as it is the carbon absorbed by the trees. The campus has 150 fully grown trees in the campus; hence the sequesterial value is about 3795 kg CO<sub>2</sub> eq.



#### 4.3 Conclusion:

- Highest carbon emission was observed from human breathing i.e. 41.20 tons of CO<sub>2</sub> eq. There is no any significant mean to reduce this number as it is not controllable.
- The next is solid waste. The emission from solid waste comprises of 8253.815 kg CO<sub>2</sub> eq. This can be significantly reduced by following simple means. Waste segregation is properly observed by the institute and they should follow the cut out plastic plans. There should be complete ban in using the plastic inside the campus. There should be minimization of food waste as it contributes highest in carbon emissions.
- Considering emission from electricity they can be significantly reduced by decrease in electricity use. This can be done by installing LED lights and using energy efficient equipment's such as machines with high star ratings which save more. Institute can

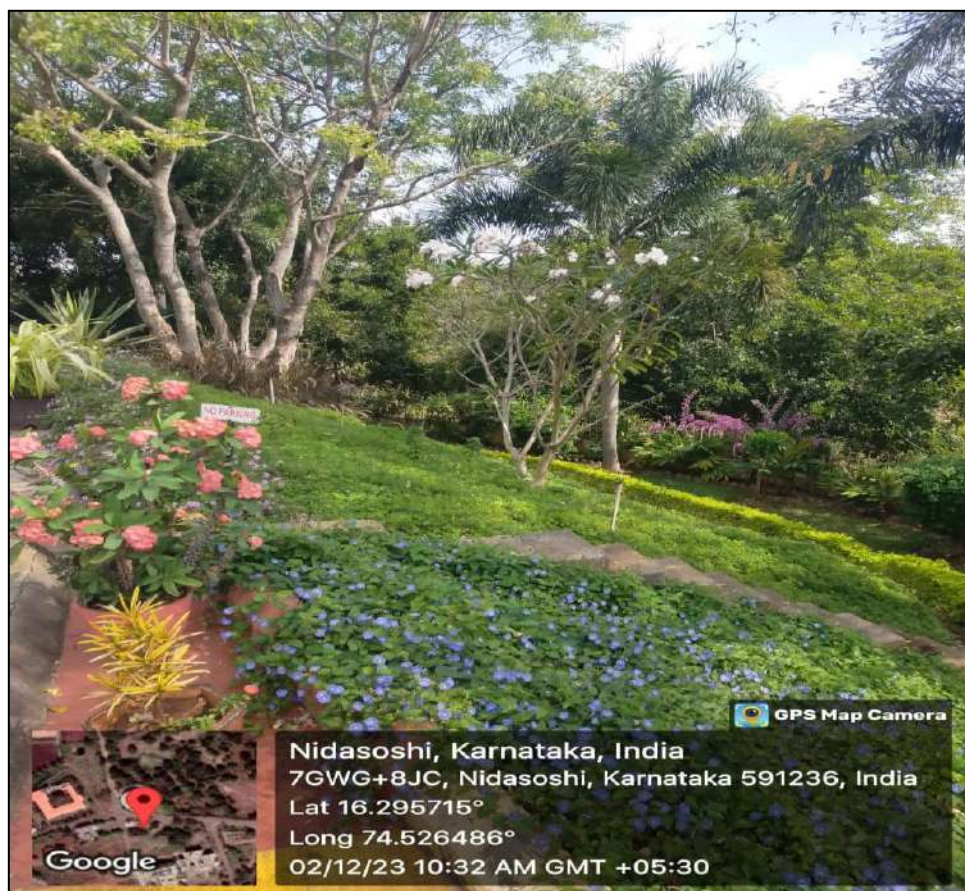
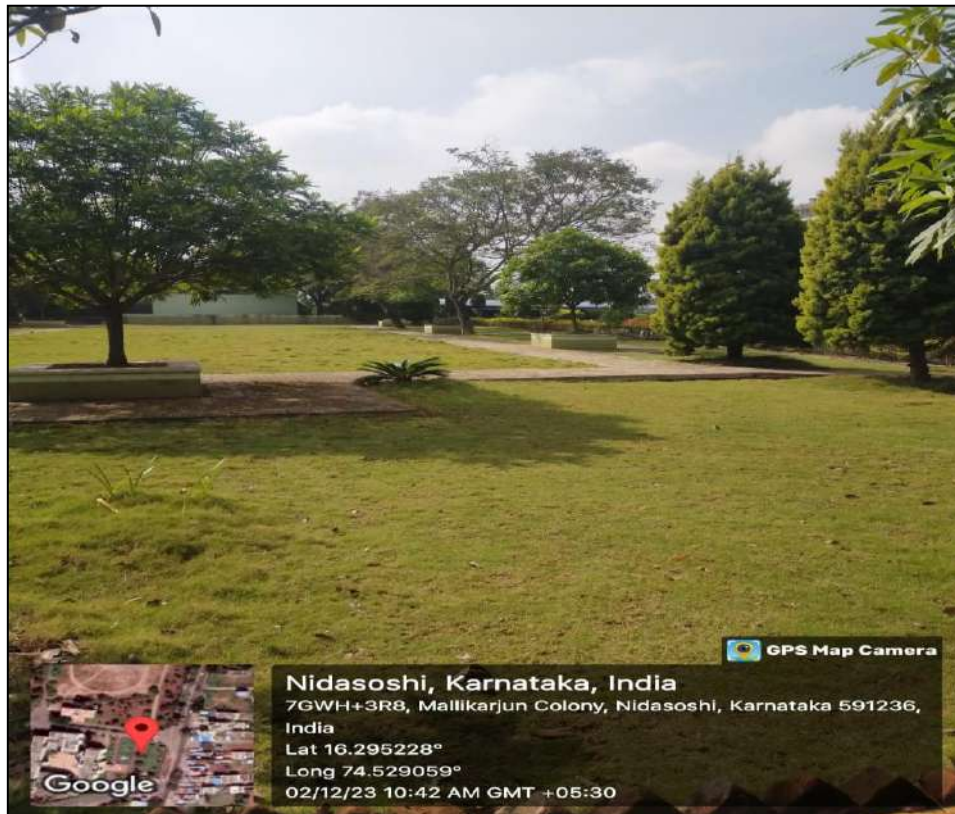


recognize renewable energy sources and have a setup in the institute. This can lead in significant saving of electricity and reduction in carbon emissions.

- Vehicles have the least emissions in the institute and it is due to the easy approached parking so that vehicles do not roam in the vicinity. All the vehicles travel hardly 200 m in the campus and this has led to lower emissions. Still institute can follows “NO Vehicle Day” on every 2<sup>nd</sup> Saturday of each month.
- Institute reduces about 3795 kg of CO<sub>2</sub> per by the means of plants. This could be increased by increasing in plantations. Institute can plant more trees in open areas available.
- The plants having highest Carbon sequestration values are suggested. Cinnamomum verum, Eugenia caryophyllid, Bumelia celestina, Acacia Berland Eri, Acacia Francescana, Chinaberry tree, Moringa oleífer, Carya illusoriness, Pinus Arizonian and Buddleia cordata are some of the suggested species for plantation.











# **ENVIRONMENT AUDIT**

## **5. Environmental Audit:**

An environmental audit is a type of evaluation intended to identify environmental compliance and management system implementation gaps, along with related corrective actions. ISO 14001 is a voluntary international standard for environmental management systems ("EMS"). ISO 14001:2004 provides the requirements for an EMS and ISO 14004 gives general EMS guidelines. An EMS meeting the requirements of ISO 14001:2004 is a management tool enabling an organization of any size or type to:

- Identify and control the environmental impact of its activities, products or services;
- Improve its environmental performance continually, and
- Implement a systematic approach to setting environmental objectives and targets, to achieving these and to demonstrating that they have been achieved.

The audit examines the potential hazards or risks posed by the institutes. Areas examined may include environmental policies and procedures, energy use practices, recycling, waste, conservation, and pollution. Then, the institute can use the results to determine what changes need to be made for compliance. In a broad sense, environmental auditing aims to help protect the environment and minimize the risks of business activities to the environment and human safety and health.

### **5.1 Water Audit and wastewater audit:**

Water auditing is a method of quantifying water flows and quality in systems, with a view to reducing water usage and often saving money on otherwise unnecessary water use. Water audit is an effective management tool for minimizing losses, optimizing various uses and thus enabling considerable conservation of water. Water audits trace water use from its point of entry into the facility/system to its discharge into the sewer/river/canal etc. Wastewater audit deals with effective management of wastewater in the system. It deals with proper generation, management, treatment, transfer and disposal of wastewater.

Hirasugar Institute of Technology, Nidasoshi has carried out its water and wastewater audit and has suggested many more ways for water conservation, reuse and recycle. The detail water and waste water report is mentioned below.



## 5.2 Water Audit report:

Water audit for the “Hirasugar Institute of Technology, Nidasoshi” was carried out. The purpose of the water audit is to provide a thorough understanding of the water uses by identifying and measuring all water using fixtures, appliances, and practices in order to recommend potential water saving efficiencies.

### PRIMARY DATA

Sr. No.	Title	Information
1	Name of Institute	Hirasugar Institute of Technology,
2	Address	Nidasoshi
3	Name of company under which water audit is carried out	Environmental and Civil Engineering Solutions, Sangli
4	Number of floors	G + 3
5	Category of building	Educational Institute
6	Nearest ESR location	Campus
7	Water supply hours	4 hrs. daily
8	Water meter present	No

### POPULATION DETAILS

Title	Information
Fixed population (Working staff and Students )	Gents: 546
	Ladies: 317
Variable population (Visiting persons)	Gents: 25
	Ladies: 19

**SOURCE INFORMATION**

Title	Information
Sources of water	River water pumping and bore-well
Connection details	1” PVC pipe inlet and 1” outlet distribution pipe

**STORAGE DETAILS**

Title	Information
Overhead tank type	PVC and RCC tank
Location	On terrace
Number of tanks	<p>Block A</p> <ul style="list-style-type: none"> <li>• PVC 2000 X 2</li> <li>• PVC 1000 X 3</li> <li>• RCC 2 Lakh liters</li> </ul> <p>Block B</p> <ul style="list-style-type: none"> <li>• PVC 1000 X 2</li> <li>• RCC 3 Lakh Liters</li> </ul> <p>Block C</p> <ul style="list-style-type: none"> <li>• RCC 20000 Liters</li> </ul> <p>Block D</p> <ul style="list-style-type: none"> <li>• RCC 2 Lakh Liters</li> </ul> <p>Hostel</p> <ul style="list-style-type: none"> <li>• Girls RCC 1 Lakh Liters</li> <li>• PVC 1000 X 3</li> <li>• Boys RCC 1 Lakh Liters</li> <li>• PVC 1000 X 3</li> </ul> <p>Office PVC 1000 X 2</p> <p>Sports complex PVC 1000 X 2</p> <p>Canteen PVC 1000 X 1</p>
Motor connection details	<p>10 Hp X 1 B Block</p> <p>2 Hp X 5 D,C Block and hostel</p>
Pumping period	5 hours daily
Underground sump	Yes



**WATER USAGE**

<b>Toilet</b>	<b>Number of users</b>	<b>Water consumption</b>
<b>Gents toilet</b>	247 users	247 X 12 lit = 6552
<b>Washbasin</b>	552 users	552 X 0.75 lit = 648
<b>Ladies toilet</b>	305 users	305 X 18 lit = 5706
<b>Toilet cleaning</b>	1200 liters	1200 liters
<b>Floor cleaning</b>	1000 liters	1000 liters
<b>Gardening</b>	2500 liters	2500 liters
<b>Laboratories</b>	5000 liters	5000 liters
<b>Total</b>		<b>22,605 lit</b>

**5.3 Waste water audit:**

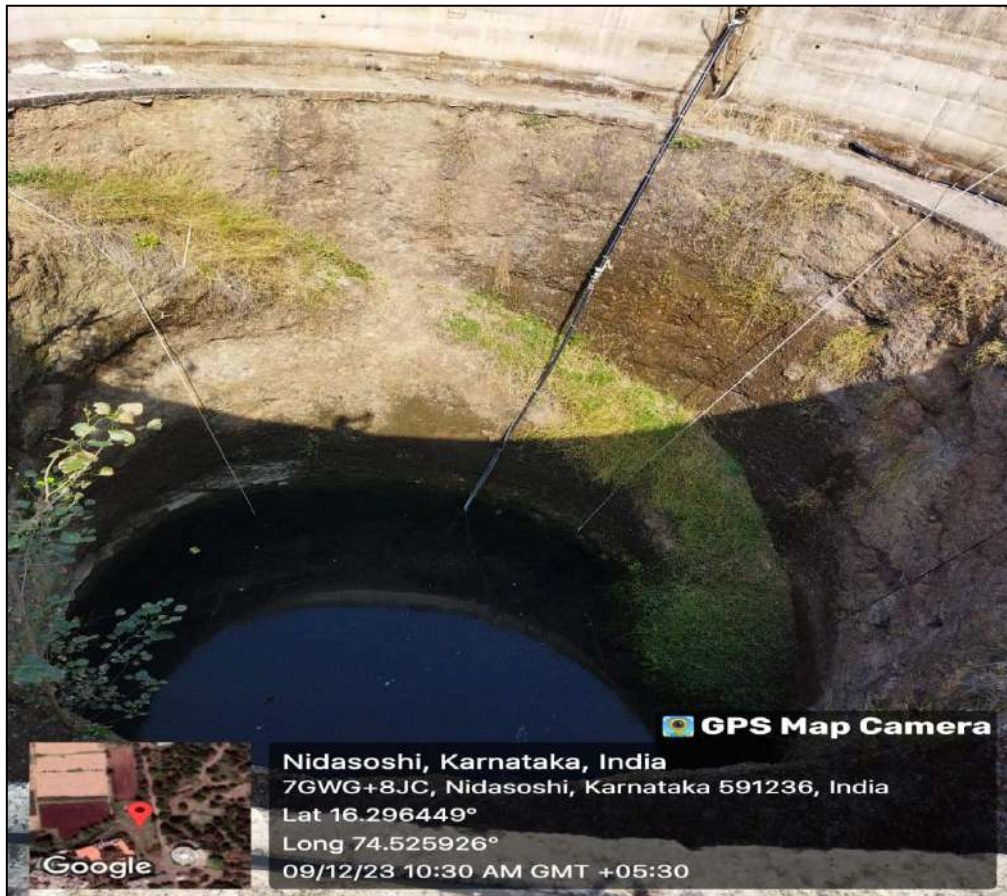
Hirasugar Institute of Technology campus generates huge amount of wastewater. The source for wastewater in the campus is hostels, institute, mess and the washrooms and urinals inside the campus. To estimate the amount of wastewater generated all the water that is used in the washrooms, quarters and hostels is considered as wastewater.

<b>Sr. No.</b>	<b>Section</b>	<b>Wastewater generated in litres</b>
1	Water usage generated in campus	<b>22,605</b>
<b>Waste water generated</b>		<b>16,953</b>

**5.4 Waste water treatment plant at institute:**

Hirasugar Institute of Technology lets all its waste water into sewers. Currently there is no any waste treatment facility. Sampling of waste water was done for 3 months for the parameters of COD, BOD, TKN and pH. Following table shows the characterization of wastewater.

<b>Sr. No.</b>	<b>Parameter</b>	<b>Reading</b>
1	pH	7.14
2	COD	211
3	BOD	108
4	TKN	22









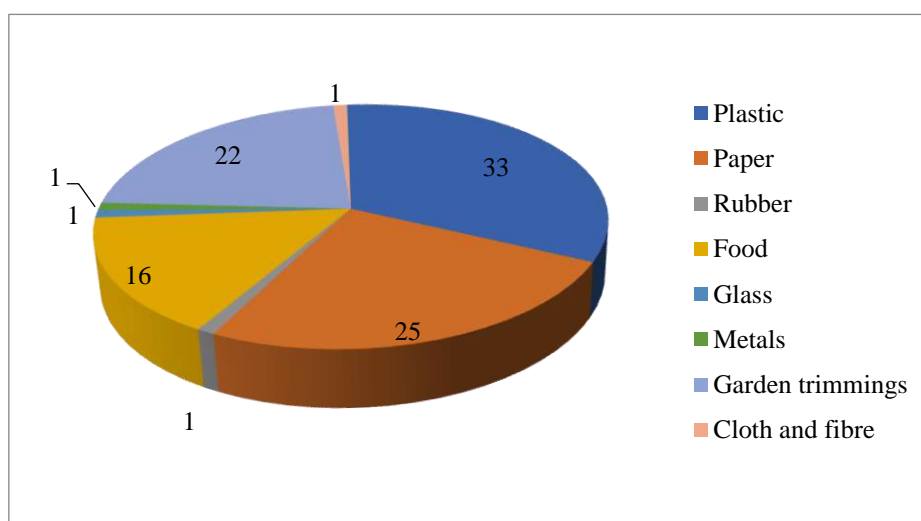


### 5.5 Solid waste Audit:

A waste audit is a physical analysis of waste composition to provide a detailed understanding of problems, identify potential opportunities, and give you a detailed analysis of your waste composition. A waste audit will help you clearly identify your waste generation to establish baseline or benchmark data, Characterize and quantify waste stream, Verify waste pathways, identify waste diversion opportunities and identify source reduction opportunities.

Solid waste is the unwanted or useless solid material generated from the human activities in residential, industrial or commercial area. Solid waste management reduce or eliminates the adverse impact on the environment and human health. Solid waste audit for Hirasugar Institute of Technology was carried out. The entire premise was analysed for solid waste generation and waste characterization. Overall waste was observed and characterization was done. The below table shows the components of solid waste at institute campus. Quartering method was used and 1 Kg of waste was selected.

Sr. No.	Type of waste	Composition %
1	Plastic	33
2	Paper	25
3	Rubber	1
4	Food	16
5	Glass	1
6	Metals	1
7	Garden trimmings	22
8	Cloth and fibre	1



After analysing all the bins it was observed that plastic had highest contribution viz. 33% followed by the paper waste i.e. 25%. Mostly common observed plastic items were plastic wrappers of chips, soft drinks bottles and chocolate wrappers. The paper waste included paper wrappers, notebook pages, pamphlets and some pieces of cardboard. The third highest waste included garden trimmings. It included small grass, minute branches etc. The least contribution was of cloth, fibre, glass and metals.



### 5.6 Observations and Conclusion:

- There are separate bins for wet waste and dry waste. Hence, source segregation takes place.
- Institute has taken steps towards paper recycling. The paper waste collected from the bins is send to vendors.
- Plastic ban in campus is implemented but due to lack of seriousness in the students plastic is used in campus. Institute should conduct plastic awareness seminars for both the staff and students.



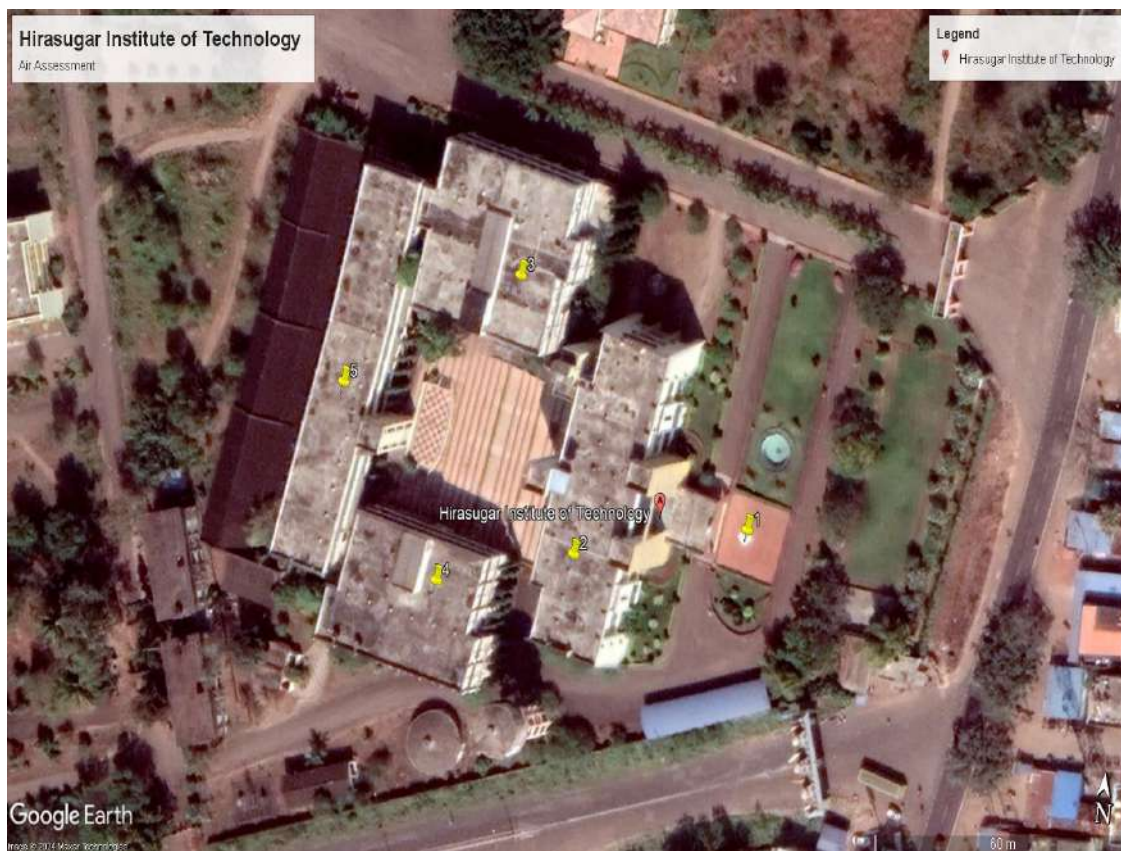
**Assessment of soil was done to determine the quality of soil:**

Sr. No.	Test	Results
1	pH	6.1
2	NPK	2:3:1
3	Acidity	144 mg/lit
4	Hardness	162 mg/lit

**5.7 Ambient Air Audit:**

Ambient air quality refers to the condition or quality of air surrounding us and in the outdoors. National Ambient Air Quality Standards are the standards for ambient air quality set by the Central Pollution Control Board (CPCB) that is applicable nationwide. The CPCB has been conferred this power by the Air (Prevention and Control of Pollution) Act, 1981. Hence, auditing this ambient air quality is stated as ambient air audit.

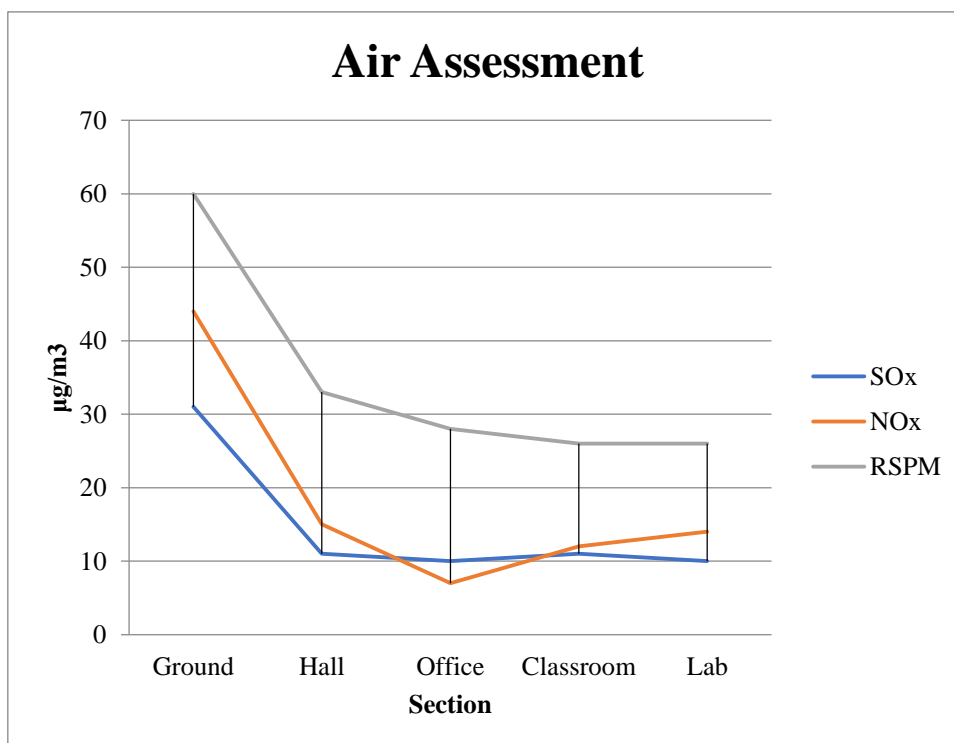
Hirasugar Institute of Technology has carried out its ambient air audit at various locations in the premises. Air quality detector machine PS-21185 was used for air audit. Parameters viz. SO<sub>x</sub>, NO<sub>x</sub>, RSPM and Air quality were assessed.



Sr. No.	Point number	Location
1	Point No 1	Ground
2	Point No 2	Hall
3	Point No 3	Office
4	Point No 4	Classroom
5	Point No 5	Lab

#### Results of air quality monitoring:

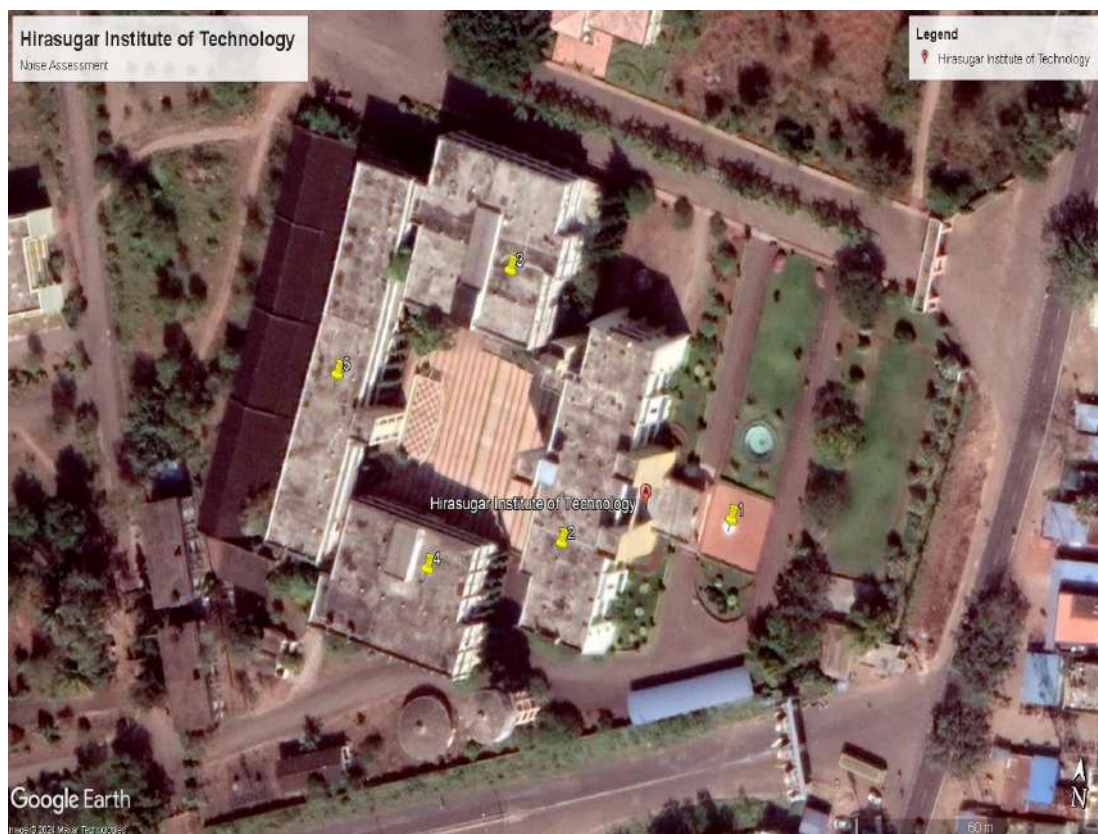
Point No	Location	SO <sub>x</sub>	NO <sub>x</sub>	RSPM	Quality
	<b>CPCB Limits</b>	<b>80 µg/m<sup>3</sup></b>	<b>80 µg/m<sup>3</sup></b>	<b>80 µg/m<sup>3</sup></b>	<b>-</b>
<b>1</b>	Ground	31	44	60	Good
<b>2</b>	Hall	11	15	33	Fresh
<b>3</b>	Office	10	7	28	Good
<b>4</b>	Classroom	11	12	26	Fresh
<b>5</b>	Lab	10	14	26	Fresh





## 5.8 Ambient Noise audit:

Ambient sound in relation to audio refers to the background noise present at a given scene or a location. This can include noises such as rain, traffic, crickets, birds, etc. Ambient sound levels are often measured in order to map sound conditions over a specific time to understand their variation with locale and various points. Ambient noise level is measured with a sound level meter. It is usually measured in Decibel (dB). 5 points were selected based on best suitable requirement for noise monitoring. RS-2250 instrument was used. Monitoring was carried out 3 times in a day for 3 months. Readings were collected in morning section, afternoon section and evening section. In addition to this monitoring was also carried out in library section, study room section, classrooms, tutorial rooms and laboratories.

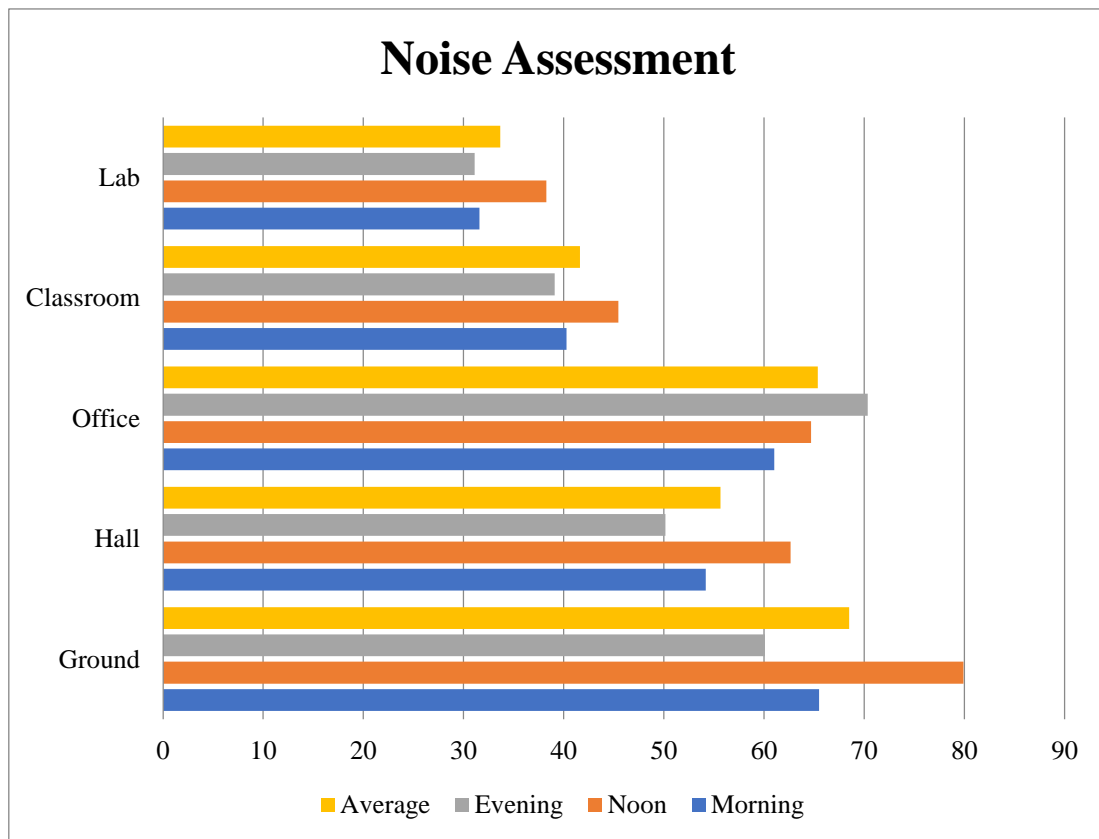


Sr. No.	Point number	Location
1	Point No 1	Ground
2	Point No 2	Hall
3	Point No 3	Office
4	Point No 4	Classroom
5	Point No 5	Lab

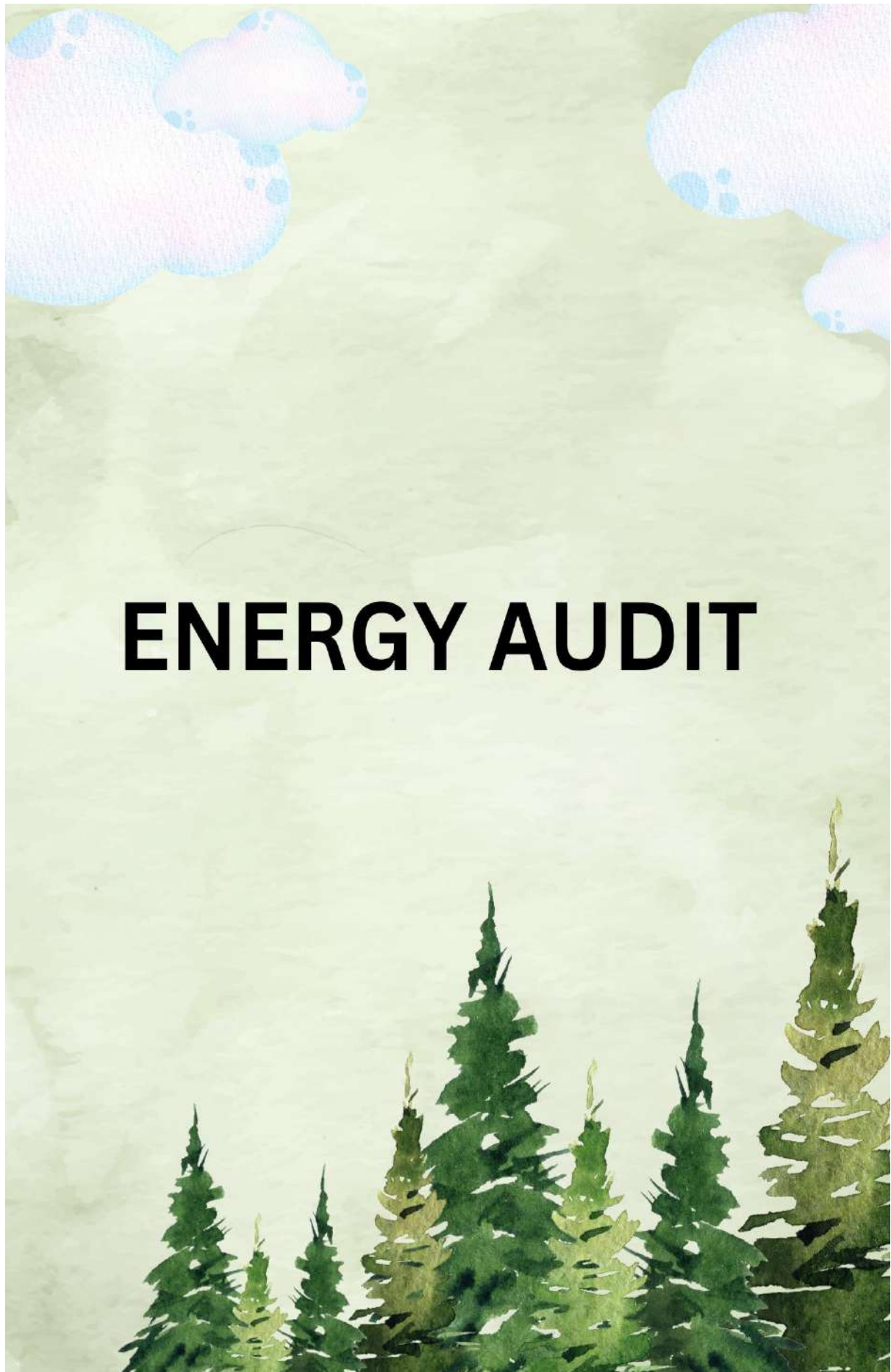
**Results of noise assessment:**

All the values are in decibels. Assessment values present average of 3 months data and the last column present the final average of morning noon and evening.

Point No	Location	Morning	Noon	Evening	Average
1	Ground	65.48	79.91	60.10	68.50
2	Hall	54.18	62.64	50.15	55.66
3	Office	61.02	64.68	70.35	65.35
4	Classroom	40.27	45.47	39.10	41.61
5	Lab	31.59	38.28	31.10	33.66







# ENERGY AUDIT

## 6. Energy Audit:

An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.

A nation is tiring to advance in quantity and quality to the spread of education among the common India and development of their intelligence. In India the entire field of education and other fields of intelligent activities had been monopolized by a handful of men before independence. But today we are marching towards the desirable status of a developed nation with fast strides. But the development should be a sustained one. For achieving such an interminable development energy management is essential. As far as concerning electricity crisis, we are facing lack of electricity during office work. So, institutional management is taking design regarding production of electricity and saving electricity for Eco social aspect. Energy requirement of India is growing and incomplete domestic fossil fuel treasury. The country has motivated strategy to enlarge its renewable energy resources and policy to establish the nuclear power plants. India increases the involvement of nuclear power to largely electrical energy development facility from 4.2% to 9%. India's industrial demand accounted for 35% of electrical power requirement, domestic household use accounted for 28%, agriculture 21%, commercial 9%, and public lighting and other miscellaneous applications accounted for the rest. Energy conservation means reduction in energy consumption without making any sacrifice of quantity or quality. A successful energy management program begins with energy conservation; it will lead to adequate rating of equipment's, using high efficiency equipment and change of habits which causes enormous wastages of energy. By observing all these study lack of electricity and huge electricity demands. It is necessary to plan to be self-sufficient in electricity requirement.

### 6.1 Connection details:

Institute receives electricity from State Electricity Distribution. Following are the details about connection.

- **Type of connection:** HT -1
- **Tariff:** 170 HT- 2 (C) (II)

- **Contract demand:** 100 KVA
- **Feeder voltage:** 11 KV

**Tariff Structure:**

As per Distribution Company, HT and LT consumers have an option to take Time of Day (TOD) tariff instead of the normal tariff. Under TOD tariff electricity consumption and maximum demand in respect of HT consumers for different periods of the day i.e. normal period, peak load period and off-peak load period could be recorded by installing TOD meter. The maximum demand and consumption recorded in different periods could be billed on the following rates of the tariff applicable.

<b>TOD Tariffs</b>	<b>Rate % (Rs./Unit)</b>
<b>0000 Hrs- 0600 Hrs &amp; 2200 Hrs- 2400 Hrs</b>	-1.500
<b>0600 Hrs- 0900 Hrs &amp; 1200 Hrs- 1800 Hrs</b>	0.000
<b>0900 Hrs- 1200 Hrs</b>	0.800
<b>1800 Hrs- 2200 Hrs</b>	1.100

**Power Factor:**

Power Factor (PF) is an indicator of efficient utilization of power. In an AC (Alternating Current) electrical power system, PF is defined as the ratio of real power flowing to the load, to the apparent power in the circuit and is a dimensionless number.





## 6.2 Bill analysis:

Bill analysis for Hirasugar Institute of Technology had been done for academic year 2022-2023.

Sr. No.	Month	Consumption (Kw)	Bill Amount
1	April 22	20395	201579.00
2	May 22	19809	199578.00
3	June 22	20267	203671.00
4	July 22	17867	181307.00
5	August 22	19002	197495.00
6	September 22	17206	180958.00
7	October 22	16203	177393.00
8	November 22	15253	168313.00
9	December 22	16575	180949.00
10	January 23	19839	211154.00
11	February 23	19275	205792.00
12	March 23	17231	186357.00

## 6.3 ILER analysis:

Lighting is provided in industries, commercial buildings, indoor and outdoor for providing comfortable working environment. The primary objective is to provide the required lighting effect for the lowest installed load i.e. highest lighting at lowest power consumption. The purpose of performance test is to calculate the installed efficacy in terms of lux/watt/m<sup>2</sup> (existing or design) for general lighting installation. The calculated value can be compared with the norms for specific types of interior installations for assessing improvement options.

Range	Condition
0.5 or less	Urgent activity required (UAR)
0.51 - 0.70	Review Suggested (RS)
0.70- above	Good

ILER analysis for various sections in the institute was carried out. Firstly using LUX meter illumination was measured and then numerical analysis was carried out. ILER gives idea about lighting conditions and measured regarding improving them.

Sr. No.	Section	LUX reading	ILER	Condition
1	Library	177	0.81	Good
2	Study room	131	0.79	Good
3	Classroom S1	136	0.77	Good
4	Classrooms S2	111	0.88	Good
5	Laboratories	145	0.84	Good
6	Office	145	0.78	Good

Reasons for Good ILER:

- Proper placement of windows and doors so that natural light is available well.
- Good ventilation system.

**Inverter Details:**

Total number of Inverter: 23

UPS KVA: 111.6

Battery name: Exide

Battery Voltage: 12 V – 192 V

Count of battery: 203



**Fitting Details:**

LED: 622

Fans: 969

PC: 414

Printers: 41



## 6.4 Sustainable practices:

### Energy Conservation program:



### Fire Extinguisher





## NSS activities





**Solar panel:**

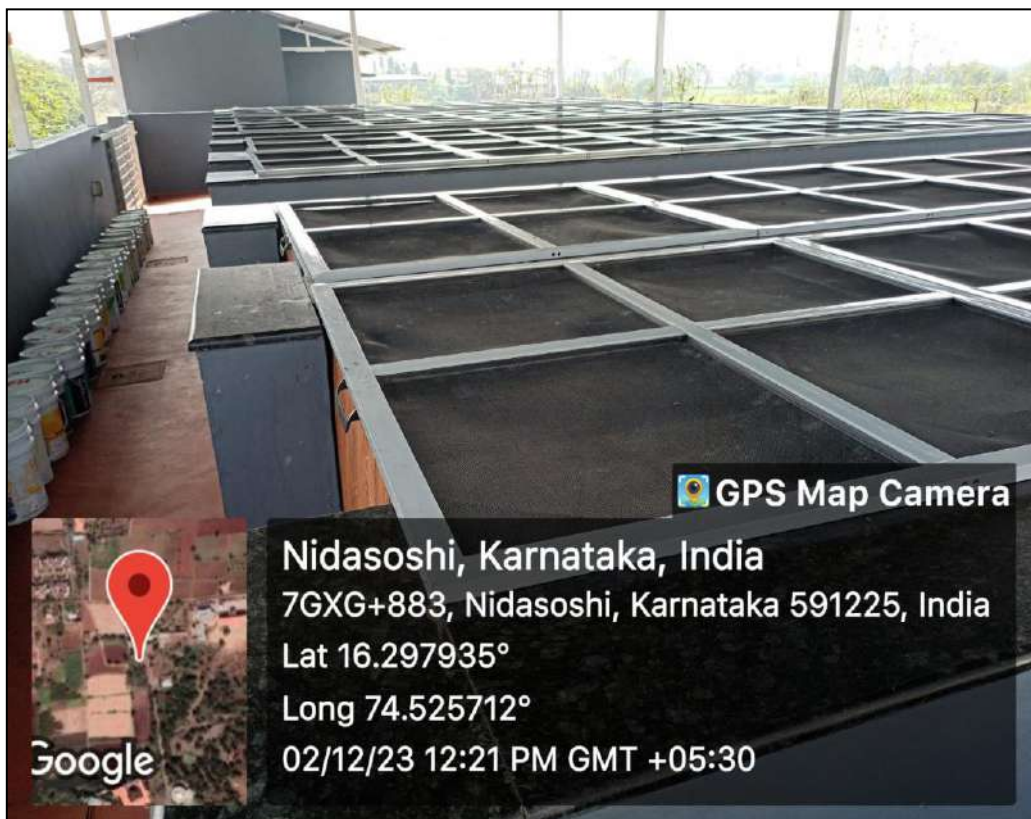
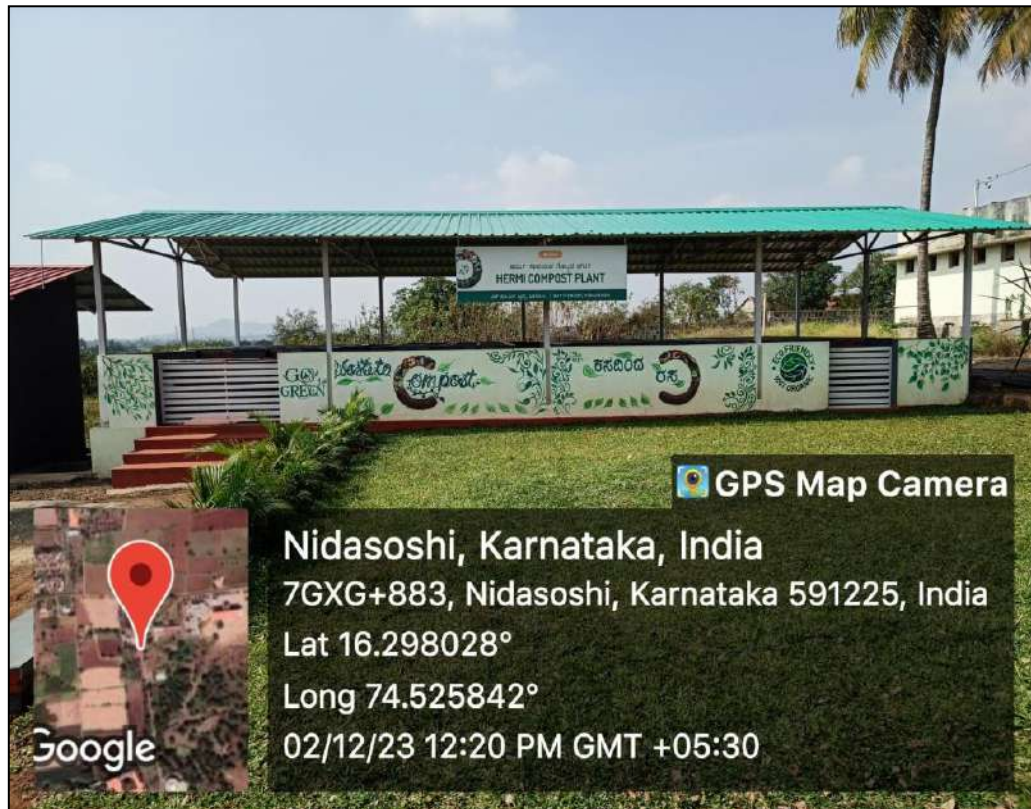


**EV bike charging station**





## Sewage treatment plant



# CERTIFICATE

## ENERGY AUDIT

PROUDLY PRESENTED TO

**Hirasugar Institute of Technology,  
Nidasoshi**

Our team of Environmental Engineers have analyzed Clean and  
Green Energy practices followed by the Institution.

THIS CERTIFICATE WAS AWARDED BY

**Environmental and Civil  
Engineering Solutions**



**ENVIRONMENTAL & CIVIL  
ENGINEERING SOLUTIONS**  
ISO 9001: 2015, IEC 17025: 2017

*Snkamble*

**SEEMA N. KAMBLE**  
DIRECTOR

*Nikhil*

**NIKHIL N. KAMBLE**  
AUDITOR

**AUDIT YEAR 2022-2023**

# CERTIFICATE

## GREEN AUDIT

PROUDLY PRESENTED TO

**Hirasugar Institute of Technology,  
Nidasoshi**

Our team of Environmental Engineers have analyzed Clean and  
Green Sustainable practices followed by the Institution.

THIS CERTIFICATE WAS AWARDED BY

**Environmental and Civil  
Engineering Solutions**



ENVIRONMENTAL & CIVIL  
ENGINEERING SOLUTIONS  
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*Snkamble*

**SEEMA N. KAMBLE**  
DIRECTOR

*Nikhil*

**NIKHIL N. KAMBLE**  
AUDITOR

**AUDIT YEAR 2022-2023**



# CERTIFICATE

## ENVIRONMENT AUDIT

PROUDLY PRESENTED TO

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AUDITOR

**AUDIT YEAR 2022-2023**

	<p style="text-align: center;">S J P N Trust's</p> <p style="text-align: center;"><b>Hirasugar Institute of Technology, Nidasoshi.</b></p> <p style="text-align: center;"><i>Inculcating Values, Promoting Prosperity</i></p> <p style="text-align: center;">Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to Visvesvaraya Technological University - Belagavi.</p> <p style="text-align: center;">Recognized under 2(f) &amp; 12B of UGC Act, 1956. Accredited at 'A' Grade by NAAC &amp; Programmes Accredited by NBA: CSE &amp; ECE.</p>	HSIT
		NAAC-Cycle2-SSR
		Criterion.6.5.2
		2023-24

## 6.5.2: Quality assurance initiatives of the institution

### 6.5.2. NIRF Report, AAA Report and details on follow up actions.

#### NIRF Audit Reports

<https://hsit.ac.in/NAAC/Cycle2/C6/6.5.2/NIRFReports.pdf>

#### Academic Audit Reports of all Departments

<https://hsit.ac.in/NAAC/Cycle2/C6/6.5.2/CSEAcademicAuditReportsFollowupActions.pdf>

<https://hsit.ac.in/NAAC/Cycle2/C6/6.5.2/ECEAcademicAuditReportsFollowupActions.pdf>

<https://hsit.ac.in/NAAC/Cycle2/C6/6.5.2/EEEAcademicAuditReportsFollowupActions.pdf>

<https://hsit.ac.in/NAAC/Cycle2/C6/6.5.2/MEAcademicAuditReportsFollowupActions.pdf>

#### Administrative Audit Reports

<https://hsit.ac.in/NAAC/Cycle2/C6/6.5.2/ReportsGreenEnergyEnvironmentAudits.pdf>