

Director's Report 2022-23

Approved by the Executive Council on 22-01-2024;
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THE INSTITUTE OF HEALTH SYSTEMS

Table of Contents

Title	Page
Human Resources:	1
Reporting Period (2022-23) Events and Activities:	2
A Research and Consultancy Projects during the reporting period 2022-23:	2
B Current Year to Date (2023-24 YTD) Research & Consultancy Projects:	4
C Unsuccessful Research & Consultancy Proposals during the Reporting (2022-23 and Current (2023-24) YTD:	4
D Public Services:	7
E Training Activities:	10
F Academic Programs:	10
Organisational Transitions:	11
Taking Stock of the Institute's Financial Position:	11
Accounts and Audit Report:	12

Tables and Figures

Tables	Page
Table 1: Overview of IHS Personnel.	1
Table 2: Overview of Internships and Apprenticeships at IHS, 2022-23.	10
Figures	
Figure 1: IHS Gross Revenue Trend Since 1999	12
Figure 2: IHS Revenue by Types of Activity	12

Annexures

#	Annex	AnxP
1A	Faculty and Personnel Profile	1
1B	Outgoing Faculty & Personnel in 2022-23 & 2023-24 (Ytd)	10
2	IHS Participation in Trg. Pgms, Workshops, Seminars & Conferences in 2022-23 & 2023-24 (Ytd)	11
3	IHS Publications in 2022-23 & 2023-24 (Ytd)	11
4A	Fellows, Interns and Apprentices at the Institute in FY 2022-23 & 2023-24 (Ytd, 10-01-2024)	13
4B	Outgoing Fellows, Interns and Apprentices, in 2021-22 & 2022-23 (Ytd).	17
5	Revenue from IHS Laboratory Services	18
6	IHS Revenue Trends by sources and activity	19

The Institute of Health System - Director's Report, 2022-23.

Dear Members of the Executive Council,

During the reporting period, we worked on several projects and provided accessible water testing analysis for public health (AWTAPH) to the general public. We strengthened and improved laboratory infrastructure and added new test services. The IHS Laboratory has been accredited by National Accreditation Board for Laboratories (NABL) in the fields of chemical and biology discipline for testing various types of water.

The Hyderabad Metro Water Quality Monitoring (WQM) project, that ended by August 2021, has been resumed from March 2023. The fifth study report on MCC Surveillance for water safety for the year 2021-22 was completed.

Human Resources:

We are functioning with a small team mostly of water quality testing & laboratory staff (Table-1). You may recall that we had downsized by in September 2021. As the WQM project was resumed in March, 2023, we had to quickly recruit water quality investigators.

Table 1: Overview of IHS Personnel.

Category of Personnel	As on 31-03-23			As on 31-12-2023		
	Full Time	Visiting / Consultant	Total	Full Time	Visiting / Consultant	Total
Faculty	4	2	6	4	2	6
Chemical Analysts / Sr. Microbiologists / Research Associates	2	0	2	2	0	2
Microbiologist / Joint Analysts / Research Assistants	1	0	1	0	0	0
Data Processing / System Admin / Software / Research Assistants	2	0	2	2	0	2
Lab Techs	0	0	0	1	0	1
Water Safety Surveyors	1	0	1	0	0	0
WQT Investigators	13	0	13	10	0	10
Lab Registration / Front Office / Admin / Accounts	0	0	0	1	0	1
All	23	2	25	20	2	22

Annexures-1A provides details about the current faculty and personnel profiles, of the Institute. A list of outgoing personnel is given in Annexures-1B. Our faculty and staff participated in a few workshops, seminars and conferences, details of which are provided in Annexure-2. As reported earlier, our academic and training programs are now limited to fellowship, internships and apprenticeships.

Now, I will give an overview of activities during the reporting period and briefly touch upon recent developments during the current year. Thereafter, I briefly summarise organisational transitions during the reporting period. We will then review the time trend of the Institute's financial performance and consider possible directions for the future. Finally, I will seek your comments and approval of the audited accounts of the Institute.

Reporting Period (2022-23) Events and Activities:

As you all are aware, the Institute pursues five broad types of activities towards improvement of public health. These are (a) Research & Consultancy, (b) Public Services, (c) Training Services, (d) Academic Programmes, and (e) Publications.

A. Research and Consultancy Projects during the reporting period 2022-23:

The following 5 projects / subprojects were implemented during the reporting period.

1. Metro Water Board Consumer Complaints (MCC) Surveillance for Water Safety:

This is a research project to evaluate MWB's consumer complaints resolution and grievance redressal system for polluted water, water leakage and sewer chokage problems. Every month, about 100 consumers are selected randomly from the metro consumer complaints (MCC) database for detailed study. Surveyors visit households and gather detailed information about consumer satisfaction, their complaints resolution experience regarding water supply and sewerage services. Household samples of direct metro water supply and from corresponding service reservoirs are tested for quality & potability. Quarterly or half yearly results are being furnished to the MWB and discussed with senior officers. The 4th annual report for 2020-21 was furnished in Jun 22. The 5th study for 2021-22 was continued during the reporting period.

2. Development of Patient Satisfaction Survey Instrument for AYUSH Hospitals:

The AYUSH Department of Telangana asked the Institute to develop patient satisfaction survey instruments for Ayurveda and Naturopathy teaching hospitals. A bilingual (Telugu & English) inpatient satisfaction questionnaire consisting 29 items organised under 8 dimensions has been developed. This questionnaire can be used as a whole or in parts depending on specific organisational and management concerns, availability of resources and feasibility of administration. For example; the four item 'Sarva Trupti (General Satisfaction)' can be used to measure overall satisfaction with care by a given hospital, particularly where resources are not available to engage specially trained interviewers and/or the organisation decides to gather feedback from all inpatients upon their discharge. Medical Superintendents seeking to motivate doctors and professional associates can use the items '*Vaidya pada* (Quality of Professional Care by Doctors)', '*Paricharaka pada* (Quality of Care by Professional Associates and Nurses)', '*Rogipada* (Patient attitude & compliance) and '*Acharana, Allaapa & Samvedana* (Interpersonal conduct & communication) to channel patient feedback for improvements in quality of clinical care. Hospital managers interested wanting to gather patient feedback about adequacy of hospital facilities can use the items in '*Dravya pada* (Treatment Facilities & Medicine)' and '*Upalabdhi* (Access, Availability & Convenience)'. A 8-item outpatient satisfaction questionnaire has also been developed. The report on Development of Survey Instrument for Patient Satisfaction Survey in Ayurvedic Teaching Hospitals in Telangana State was submitted in August 2023." The report for Naturopathy hospitals is under preparation.

3. Sanitary Inspection of Metro Water Service Reservoirs in Hyderabad:

The purpose of sanitary inspection of service reservoirs (SISR) is to check all aspects of a service reservoir (SR) to identify vulnerabilities and pathways of contamination, if any. Purpose is to identify structural and/or operational deficiencies, if any, and recommend measures for improvement of sanitary integrity and to minimise risk of contamination of water stored and distributed from the SR. For example, SRs with unprotected air vents and/or open manholes would be vulnerable to bird droppings. Water safety surveyors are trained to inspect and gather information about air vents, manholes, inlet-outlet arrangements, state of roof & walls, surroundings, history of cleaning, and chlorination arrangements. Reports are prepared based on their initial inputs and follow-up visits for further clarifications. Each report provides actionable recommendations to address sanitary deficiencies, and improve operational integrity of the SR. As the Water Quality Monitoring (WQM) project was assigned by the HMWSSB to another agency, the SISR work at the Institute was suspended from September 2021 to February 2023. In February 2023, the HMWSSB awarded the WQM work for one year with effect from March 2023. Accordingly, the SISR work was resumed in March 2023. As it took some time for the Institute to mobilise and train water safety surveyors for this work, only two SISR reports could be prepared in March 2023. Another 90 SISR reports have been prepared during April to December, 2023.

4. Community Focus Groups for Water Safety in Slum Areas Hyderabad:

The objective of the community mobilisation is to develop strategies for water safety in slum areas and build community awareness among residents. Focus group discussions (FGDs) are conducted regularly in identified slum areas to gather consumer perceptions of metro water supply through domestic connections, public standposts and tankers and to understand consumer concerns on water availability, regularity, and quantity of supply. FGDs also help to understand community knowledge, attitudes and practices about water quality and related issues, usage, storage, handling, hygiene, sanitation, and health status. In addition, the FGDs are used to inform & educate the target group on good hygiene practices and measures to prevent waterborne diseases. Community FGDs are a subproject of the independent water quality monitoring work by the Institute for the MWB. Five FGDs were conducted in March 2023. Another 40 FGDs have been conducted during April-December, 2023.

5. HMDA Lake Water Quality Monitoring Pilot Project:

Considering the importance of environmental water quality for public health, the Institute approached the Telangana State Pollution Control Board (TSPCB) and offered its support for environmental monitoring and improvement of environmental health. In July 2022, TSPCB asked for detailed proposal for water quality monitoring of 1126 lakes and water bodies in HMDA area. A proposal was submitted in August 2022, along with a lake water sample collection guide, and format of lake field observation report. In November, 2022, the TSPCB awarded a pilot project for field observation and monitoring of water quality in 60 lakes, within six months. During the reporting period, by February 2023, 10 lake water quality monitoring reports were submitted to the TSPCB.

B. Current Year to Date (2023-24 YTD) Research & Consultancy Projects:

1. Metro Water Board Consumer Complaints (MCC) Surveillance for Water Safety:

The fifth MCC surveillance project, continued from previous year, was completed in October 2023. The MCC study report for 2021-22 was submitted on 30th October, 2023. The next study period in sequence would be 2022-23. However, dislocations triggered by the Covid-19 pandemic resulted in stoppage followed by substantial delays in completion of the last two studies (2020-21 & 2021-22), along with increase in recall period. Increased recall period affects validity of consumer feedback. In order to reset the recall period, we have recommended to skip two years (2022-23 & 2023-24) and resume the second series of MCC study from 2024-25 onwards. The proposal is pending consideration by the HMWSSB.

2. HMDA Lake Water Quality Monitoring Pilot Project:

The pilot project was continued from previous year. Another, 11 lake water quality and field observation reports were submitted to the TSPCB, by 11-7-23. The work could not be completed, within the allotted time, for various administrative reasons. On 11-07-2023, a request for extensions of time was submitted to the TSPCB. Nine reports were submitted on 28-8-23.

3. Development of Patient Satisfaction Survey Instrument for AYUSH Hospitals:

As mentioned earlier, the report for Naturopathy hospitals is under preparation.

4. Sanitary Inspection of Metro Water Service Reservoirs (SISR) in Hyderabad:

As mentioned earlier, SISR work is continuing as part of the third-party water quality monitoring (WQM) project assigned by the HMWSSB. In addition to the two reports prepared in March 2023, 90 more SISR reports have been prepared from April to December 2023.

5. Community Focus Groups for Water Safety in Slum Areas Hyderabad:

As mentioned earlier the community focus groups for water safety are being conducted in slum areas of Hyderabad, as a part of the HMWSSB-WQM project. In addition to the five reports submitted for March 2023, 40 FGD have been conducted from April to December, 2023.

C. Unsuccessful Research & Consultancy Proposals during the Reporting (2022-23 and Current (2023-24) YTD:

1. Gap Analysis on Biomedical Waste Generation and Treatment Facilities in the State:

As per Central Pollution Control Board (CPCB) guidelines-2019 for Common Biomedical Waste Treatment Facilities (CBMTFs), the State Pollution Control Boards are required to conduct gap analysis to assess adequacy of existing treatment capacity CBMWTFs over next 10 years, with respect to coverage area and projected generation of biomedical waste. In Telangana, the TSPCB has permitted 11 CBMWTFs. In July 2022, TSPCB asked the IHS for a detailed proposal on Gap analysis of bio-medical waste generation and adequacy of treatment facilities in the State.

The terms of reference included; (a) district wise inventory of health care facilities (HCF) according to biomedical waste generation categories, (b) cross checking validity of HCF inventory with concerned departments, stake holders and by field verification, (c) identification of unauthorised health care facilities in the State, (d) districtwise estimate of biomedical waste generation in the State, (e) adequacy of existing biomedical waste treatment facility. A comprehensive report, within 3 months, was called for with specific recommendations on; (i) gap between total generation and existing biomedical waste treatment capacity, (ii) if required, location wise proposal for additional treatment facilities, (iii) redefinition of district wise coverage of existing CBMWTFs based on their location in the context of reorganisation of districts and as per CPCB distance guidelines.

Accordingly, a detailed work plan was prepared. Considering the 3-month time limit, no primary data collection was proposed. Instead, the work plan was based on triangulation of secondary data from various sources including; (a) annual form IV reports filed by the existing 11CBMWTFs, (b) districtwise list of hospitals and non-bedded HCFs covered by respective SBMWTF, (c) data from the HCF registration portal maintained by the TSPCB, (d) data form the TSPCB biomedical waste management app by the Centre for Good Governance (CGG), (e) districtwise list of private HCFs registered under the Telangana Allopathic Private Medical Care Establishments Act, (f) districtwise list of government HCFs from Directorate of Medical Education, Telangana Vaidya Vidhana Parishad, Director Public Health, and (g) Aarogyasri Health Care Trust database of empanelled hospitals.

Cost of the project was estimated at Rs17.50 lakhs. The detailed work plan along with financial estimate was submitted on 26-08-2022. On the same day, the Institute also submitted the proposal for lake water quality monitoring. By November, 2022 it was clear that the TSPCB considered the lake water quality monitoring proposal only.

2. Status of Basthi Dawakhana in Hyderabad – A Community Based Assessment:

On 1st April 2023, the Azim Premji University launched its first round of Research Funding Program in Health. The program offered Rs5-40 lakh funding for methodologically robust, empirically grounded, 1-2-year duration, research studies focused on vulnerable communities. Proposals were called under two themes, namely; Theme 1: Status and quality of primary healthcare and institutional frameworks, and Theme-2: Implementation research on interventions to effect public-health and community-health. Each theme, consisted of 3 sub-themes. In order to develop proposals, the Institute engaged Dr. Aneka Paul, who holds a Masters and Ph.D. in Social work from Tata Institute of Social Sciences (TISS), and has experience as an independent consultant to various organisations including the Azim Premji Philanthropic Initiatives, TISS, Kotak Education Foundation and has work experience with various foundations like Sir Ratan Tata Trust, Tata Education & development Trust. The Institute submitted two proposals, in collaboration with Dr. Aneka Paul. Both proposals were submitted on 06-05-2023.

The proposal titled: “*Status of Basthi Dawakhana in Hyderabad – A Community Based Assessment*” was submitted under Theme-1A Studies exploring the current functioning of institutional mechanisms for public health such as Primary Healthcare Centers (PHCs) or Health and Wellness Centers (HWC). Following is a brief summary of the proposal.

Basthi Dawakhanas are urban community clinics implemented by District Health Societies (for Human Resources, medicines & consumables, etc) and Greater Hyderabad Municipal Corporation (GHMC; for infrastructure). As of February 2022, 256 Basthi Dawakhanas were functional in GHMC Metro area, with 94 more sanctioned to be established. These Basthi Dawakhanas offer free basic primary healthcare through out-patient consultations, medicines for common illnesses, immunization, antenatal and postnatal care, counselling, specialist tele-consultation, laboratory investigations, screening for anaemia and NCDs, referral to higher centres, IEC activities for health promotion, etc. They are generally located near underserved localities to increase access to healthcare for the urban poor. This study proposes to assess a sample of Basthi Dawakhanas to ascertain if they are fulfilling their mandate. This includes evaluating availability, access, and responsiveness, on the following operational domains: Open at stipulated timings (10am to 4pm), staff attendance (in-person or on call), availability of medicines & consumables, safe & hygienic infrastructure (layout as specified); Average daily patient attendance, demographic profile of patients; Pattern of resort among basthi residents based on public health needs (vaccination, MCH care) & illness-profile (acute & chronic disease); Ease of referral to and back-referral from higher centres; Appropriate and timely responses to complaints; Focus on vulnerable groups (women, children, elderly &c.); Practice of community monitoring, feedback, and social audits (if any). The study will employ various qualitative methods (Focus Group Discussions, Interviews with different stakeholders, observation during spot visits, patient satisfaction surveys) to assess the effectiveness of Basthi Dawakhanas from the community's perspective.

On 25th July, 2023, the Azim Premji Foundation conveyed their regrets and informed that they were not able to fund the proposal.

3. Effect of Appropriate Point-of-Use Storage Vessels and WASH training on Faecal Contamination of Drinking Water in Urban Slum Households of Hyderabad – A Randomised Control Trial.

This the second proposal submitted to the Azim Premji University under Theme-2B Effects of long-term or ongoing community-focused work on health and/or determinants of health (water, sanitation, nutrition, etc.). Following is a brief summary of the proposal.

Worldwide, in 2016, diarrhoea - commonly caused by faecal contamination of water - was the eighth leading cause of death (all ages) and fifth leading cause of death among children under 5. Diarrhoea is the third leading cause of childhood mortality in India. An exploratory study in Hyderabad showed substantive post-storage contamination of municipal water (Eschol, Mahapatra and Keshapagu, 2009). Recent surveys of Metrowater consumers in Hyderabad show that more than 60% households rely on tap-less wide-mouth vessels for point-of-use storage of drinking water (Metro Consumer Complaints Surveillance Studies, 2017-18 to 2020-21). Such vessels are vulnerable to post-storage contamination during handling, particularly when stored water comes in contact with handlers' fingers while dipping tumblers. Other unsafe household practices include improper coverage of storage vessels using a piece of wood or cloth. We propose a three-arm randomized control trial at 6 urban slums of Hyderabad city, in which low-cost household level interventions of (a) covered narrow-mouthed vessel with a dispensing tap, and (b) well-fitting lid with long-

handled dedicated ladle or tumbler with handle (for existing wide-mouthed containers) and instruction on handwashing, will be compared with existing water storage and handling practices. Household level surveys and testing of water quality will determine which practice is most effective in preventing faecal contamination of drinking water as well as the most acceptable to the community. Findings of the study will form the basis of IEC material for wider dissemination among underserved populations of Hyderabad city.

This proposal was also not approved for funding by the Azim Premji Foundation. They conveyed their regrets on 25th July 2023.

D. Public Services:

1. Chemical Laboratory (ChemLab):

The ChemLab is equipped to analyse and test for various physical and general chemical parameters in water from different sources.

The physical parameter station is equipped with nephelometer, pH meter, electrical conductivity meter, water baths, hot air oven, desiccator, analytical balance, suction pump, and filter assemblies. Sensory parameters such as odour and apparent colour are assessed by trained laboratory personnel. Occasionally, in case of doubt expanded smell panels are constituted by recruiting staff members from other areas of the Institute.

The titration station is equipped with Class A borosilicate volumetric glassware, including automatic burettes for manual titration. Volumetric glassware is calibrated periodically. NIST traceable laboratory reagents are used as titrants, for preparation of the analyte and as indicators. The laboratory is equipped for acid-base, redox, precipitation, and complexometric titrations.

The photometry station is equipped with visible and ultraviolet spectrophotometers. Standard solutions prepared from NIST traceable laboratory reagents are used to estimate standards curves. Absorptions and/or transmittance of light in appropriate wavelength of blanks and analytes helps in assuring validity of test results and estimation of parameter value from standard curves. The flame photometer is calibrated in every session with standard solutions. The laboratory is equipped with digester and incubator for estimation of chemical oxygen demand (COD) and biochemical oxygen demand (BOD).

The Chemical section of the IHS Laboratory is accredited by the National Board of Accreditation for Testing and Calibration Laboratories (NABL) India; Lab Id: T-4179; Certificate Number: TC-7658; Issue Date: 06-08-2022; Valid Until: 05-08-2024. About 30 general and chemical parameters for testing of various types of water such as groundwater, surface water, drinking water, packaged drinking water, water from purifier, water for dialysis, purified water, irrigation water, swimming pool water, water for processed food industry, construction water, industrial water, sewage treatment effluents and waste water are within the scope of NABL accreditation.

2. Microbiology Laboratory (BioLab):

The BioLab is equipped to analyse and test for microbial contamination of water. Various plate count tests are available to estimate bacterial colony forming units (cfu), which is a measure of the total bacterial population in a water sample. Multiple tube dilution technique is used to estimate most probable number (MPN) of total coliforms, some of which

would indicate environmental and faecal contamination of water. Confirmatory tests are available to identify indicator organisms (thermotolerant coliforms and *E. coli*) associated with environmental and sewage contamination. The bacterial endotoxin assay is available to test the level pyrogens (endotoxins) in water for dialysis.

The Microbiology section of the IHS Laboratory is accredited by the National Board of Accreditation for Testing and Calibration Laboratories (NABL) India; Lab Id: T-4179; Certificate Number: TC-7658; Issue Date: 06-08-2022; Valid Until: 05-08-2024. About 10 microbiology parameters for testing of various types of water such as groundwater, surface water, drinking water, packaged drinking water, water from purifier, water for dialysis, purified water, irrigation water, swimming pool water, water for processed food industry, construction water, industrial water, and waste water are within the scope of NABL accreditation. The IHS Laboratory is also accredited by the NABL for bacteriological endotoxin testing (BET) of dialysis water.

3. CSR Grant from Sodhana Laboratories for Strengthening of IHS Laboratory:

Sodhana Laboratories have supported strengthening of the IHS Laboratory during the past years 2014, 2015 and 2017. Their support helped the Institute upgrade of the laboratory, while preparing for NABL accreditation during the year 2018. A proposal was submitted, in December 2023, with a request for funds to replace some of the ageing equipment, to strengthen quality assurance infrastructure and to expand scope of water analysis for various public health needs. Under their corporate social responsibility (CSR) program, M/s Sodhana Laboratories released 5.18 lakh rupees, for replacement of an ageing autoclave, procurement of class-II biosafety cabinet, COD digester, bottle top dispenser and a desk-top autoclave for small loads. The autoclaves have been procured and installed. Remaining equipment are being procured.

4. Accessible Water Testing & Analysis for Public Health (AWTAPH):

The IHS Laboratory seeks to empower people by easily accessible to water quality testing services. Test-packages are designed for water from different sources for various uses. As of April 2022, the laboratory tests catalogue includes 25 multi-parameter test packages, and 42 single or limited parameter test services. The multi-parameter test-packages include; basic/complete/groundwater/bottled water potability tests (BPT/CPT/GPT/BWP), basic (municipal water distribution) system vulnerability (BSV), dialysis water testing, swimming pool water quality, and waste water analysis.

Notes and recommendations attached to test reports in a unique feature of water quality test services from the IHS laboratory. People usually have concern about safety and suitability of water for an intended use. For example; is this water safe to drink? Can I use my borewell water for domestic purposes? Is it suitable for gardening? Some clients ask if their water suitable for poultry, fisheries or other animal feed. A baker would be concerned about suitability of water for their operations and a food processing industry would want to know if the water is suitable for washing and cleaning of raw fruits and vegetables. To meet various client concerns, IHS faculty refer applicable standards, fact sheets, public health and/or environmental protection agency advisories, industry guidelines, etc. to offer notes and recommendations regarding suitability of the particular water sample submitted for analysis for their intended purpose.

During the reporting period, about 732 water quality test reports were issued to general public.

5. Water Quality Monitoring in Service Reservoirs and Urban Slums in Hyderabad:

As reported in the Director's report for FY2020-21, the independent water quality monitoring service to the HMWSSB, started in 2005 was interrupted in September 2021. The Institute participated in the HMWSSB tender in January 2023 and was successful. Agreement for "Third Party Water Quality Monitoring in Servicer Reservoirs, Urban Slums in GHMS areas and ORR villages under HMWSSB System" for one year was signed in February 2023. The HMWSSB Water Quality Monitoring (WQM) work started from 1st March, 2023. The scale of the project has been expanded to cover the outer ring road villages under the HMWSSB system. The HMWSSB has set a monthly target of 18000 field testing of residual chlorine (FTRC), 1250 bacteriological contamination monitoring (BCM) tests, 200 physico-chemical monitoring (PCM) tests, 15 SISRs, and 5 FGDs. As the previous workforce for water quality monitoring has been disbanded, it took some time for the Institute to mobilise required manpower. The expanded scale of monitoring work called for substantial planning, and gathering of field information about location of service reservoirs, particularly in ORR areas. As a result, there was some deficit in achievement of targets for the first three months. From July 2023 onwards, the Institute has fulfilled set target for all activities except SISR. On average, achievement of SISRs is at 75%.

6. Development of the Nagar Jal Suraksha (NJS) App:

In 2023, the HMWSSB substantially expanded coverage of the Water Quality Monitoring project by including outer ring road (ORR) service reservoirs. In 2019, the Institute had transitioned from paper-based recording of field testing of residual chlorine (FRC) work to an Epi Info mobile app. This improved that data gathering process. However, certain limitations of the Epi Info mobile app made it difficult to deal with division wise list of a large number of service reservoirs. For example, the Epi Info mobile app does not provide for conditional filtering of service reservoir names by division. Moreover, the expanded coverage of WQM work in 2023 posed additional challenges of updating the service reservoir dictionaries in mobile apps of many water quality investigators. Hence, the Institute commissioned a software development firm to develop the Nagar Jal Suraksha app.

The NJS app helps WQIs record field test results and sampling locations. WQIs can easily identify testing & sampling locations by selecting items from dictionaries of service reservoirs, area names etcetera. Records of a day's work can be exported and emailed to central data processing office for consolidation and analysis. The app has separate forms for testing and sample collection from Service Reservoirs, Households, and water Tankers. Version-1 of the NJS app, being used in Hyderabad by IHS from August 2023, has turned out very useful in water quality monitoring work.

7. Publications:

IHS and related publications in the reporting year are listed in Annex 3.

E. Training Activities:

The Institute's training program is now limited to skill development internships in laboratory techniques, field testing, sample collection, sanitary inspection of service reservoirs, water safety, data processing activities.

Table-2 shows an overview of internships offered by the IHS during the reporting period and current year. We had to relieve four candidates before completion of the internship, as the field training opportunity shrunk due to closure of the WQM project.

Table 2: Overview of Internships and Apprenticeships at IHS, 2022-23.

Sl	Practice & Skill Development	Reporting Year, 2022-23			As on 31-03-23	Current Year 2023-24YTD			As on 10-01-24
		Intake	Dropouts	Compltd.		Intake	Dropouts	Compltd.	
1	Laboratory Technique	5	1	0	4	4	1	1	6
2	Water Safety Surveyor	0	0	0		2	1	0	1
3	Front Office & Accounts	2	0	0	2	0	0	1	1
4	Data Processing & Sys Admin.	1	0	0	1	0	0	0	1
5	Apprentice Water Quality Investigators	5	1	0	4	12	6	1	9
Total		13	2	0	11	18	8	3	18

Number of internships discontinued and completed do not add up to the number joined because each of these figures are about join/drop/complete events during the year in respect of persons who might have joined as interns during the current as well as previous periods. An internship is usually of one year duration. Annex-4A gives short biographies of fellows, interns and apprentices, and Annex-4B gives a list of fellows, interns and apprentices who left the Institute for various reasons.

F. Academic Programs:

1. Masters' in Public Health (MPH): There is no further development since the last meeting.

2. IHS Land-High Court case:

There is no further development since last meeting on the Public Interest Litigation (PIL) case which was filed and the last listed date was on 31/8/2015. Sri D. Prakash Reddy, the Institute's advocate, did argue our case and no final order has been passed by the court.

3. Land Development Charges:

The members are aware that, pending finalisation of the court proceedings, we initiated proposal with HMDA for conversion of land use from recreational zone to institutional zone. We paid an amount of Rs 9,90,000 towards 50% of the development charges on 24/03/2014. Payment of balance 50% of development charges to HMDA along with interest is pending. In March & Jun 2018, we requested HMDA to calculate the balance to be paid along with draft challan. HMDA has referred the issue to TS Govt and further there is no response.

Organisational Transitions:

There was a transition in Director and Finance Officer positions during the FY2022-23. Sri G. Surendra, who served as Director cum Finance Officer of the Institute for 13 years decided to retire by end 2022. The Institute appointed one Sri G. Laxminarayana, who had recently retired from the Telangana State Government, as Additional Director cum Finance Officer, to manage the transition. Mr. G. Laxminarayana assumed charge as Additional Director cum Finance Officer, on 20-10-2022. However, by end November 2022, Mr. Laxminarayana served notice to resign from the position on personal grounds. The Institute searched for a suitable replacement. An appropriate substitute for the Director position could not be identified. As Mr. Surendra had to be relieved, the Institute asked its President Dr. Prasanta Mahapatra, to assumed charge as Director, until a suitable replacement is found. Mr. G. Surendra was relieved on 10-01-2023, by Dr. Prasanta Mahapatra, who is currently acting as the Director. On 17-02-2023, Sri. G. Vijaya Bhaskar, who had just retired from the AP State Government Service, was appointed Additional Director cum Finance Officer. Mr. G. Vijaya Bhaskar assumed charge of Additional Director cum Finance Officer on 24-02-2023.

The above transitions affected timely compilation of accounts for the FY2022-23. New Officers of the Institute needed time to understand the Institute's operations, manage ongoing activities and compile accounts for audit. The Institute's accounts could be finalised by last week of November 2023. The Audit Report and Income Tax Return were filed by 30th November. The Income Tax Department had extended the deadline for filing of return to 30th November, 2023. However, the audit report should have been filed by 30th October 2023. Thus, the Institutes tax return was filed in time, but there was a one-month delay in filing of the audit report. An application has been filed with the Commissioner Income Tax (Exemptions), Hyderabad for condonation of the delay.

Taking Stock of the Institute's Financial Position:

1. Revenue form Laboratory Services:

In recent years, the laboratory has significantly increased its output and has also been a major source of revenue. An overview of revenue from IHS laboratory services is in Annex-5 which shows that, most of the revenue is being generated from HMWSSB for monitoring water quality at various points of water distribution system operated by them up to the year 2020-21. As the Institute could not continue with the HMWSSB - Water Quality Monitoring overall revenue form laboratory services are fallen in the years 2021-22 and 2022-23. With resumption of the HMWSSB-WQM project form March 2023, the WQM revenue has picked up during the current year. Laboratory revenue from intramural research projects has improved on account of the MCC project and Lake Water Quality monitoring projects. I am happy to report that the laboratory revenue form generally public, through accessible water testing analysis for public health (AWTAPH) has increased during the reporting period.

2. Overall Revenue Trend:

Classification of the Institute's revenue from domestic and foreign sources as well as by activity is given in Annex-6. In Figure-1 the gross revenue generated by the Institute from the financial year ending in March 1999 has been summarized. The gross revenue during the

recent three reporting periods (FY 2021, 2022 & 2023) was declining. However, the trend is expected to reverse during the current year (2023-24). Figure-2, shows that, most of our revenue has been contributed by Research and Consultancy till 2012. Revenue from research activities reduced in the years 2013 to 2017. From 2018 onwards, there is modest increase in revenue from research. But there is likely to be reduction in the current year, as the MCC project has been completed, and further renewal may take some time.

Figure 1: IHS Gross Revenue Trend Since 1999

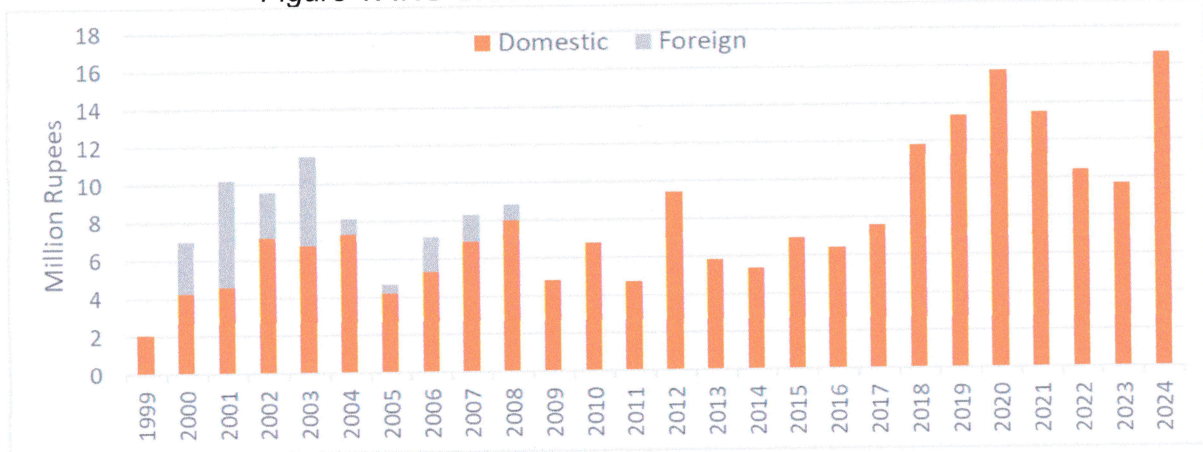
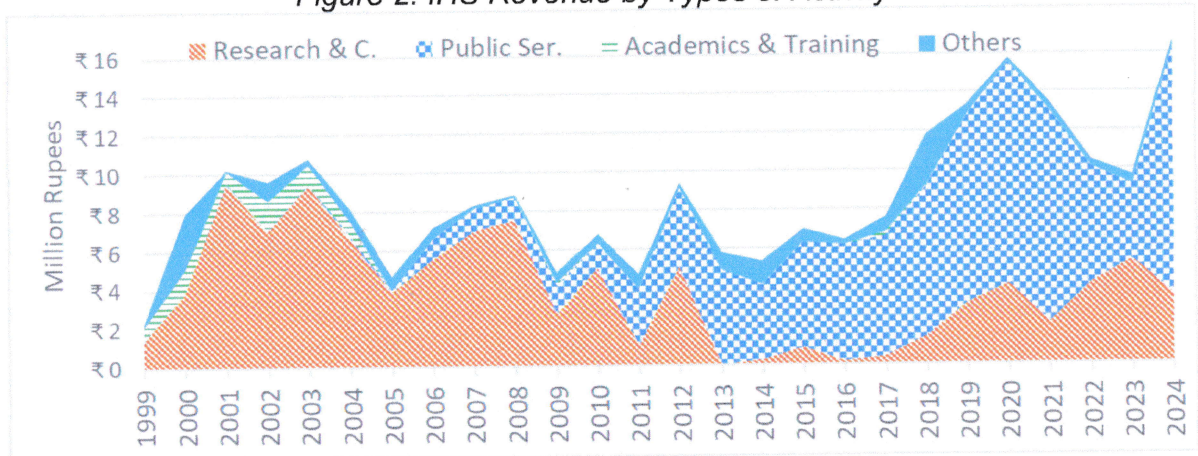


Figure 2: IHS Revenue by Types of Activity



I look forward for your guidance in addressing these important issues.

Accounts and Audit Report:

The audited accounts of the Institute for the year 2022-23, is enclosed. I now request you to consider the same and give your approval with suggestions if any.

Finally, I thank you for having spared the time to participate in this meeting. Your presence is a great inspiration to me, and my colleagues.

I would now request you to consider this report and give your valuable advice and guidance for further development of the Institute. We would like to assure you that we will do our best to translate your ideas and suggestions into action.

Dr. Prasanta Mahapatra, Director

Date: 22/01/2024

Annex - 1A

Faculty and Personnel Profile

Full Time Faculty

Dr. Prasanta Mahapatra, President & Dean (Holding Charge of Director, From 10-01-2023)

Dr. Prasanta Mahapatra is a medical doctor, a Takemi Fellow in International Health and a PhD in International Health Policy & Economics from Harvard University. After practicing for some time as a Medical Officer in the Central Government Health Scheme, Dr. Mahapatra joined the Indian Administrative Service, in 1980. He served in various capacities in East-West Godavari, Nellore, Nalgonda, Krishna and Guntur districts. He is experienced in revenue, general administration, disaster management, rural development, tribal welfare, women welfare, medical, health, information technology, irrigation and school education sectors. His experiences in the health field includes Registrar of the NTR University of Health Sciences, Director Medical Education, Commissioner Medical Services, Senior Faculty at the Administrative Staff College of India, Director Institute of Health Systems, and Director - Vice Chancellor of the Nizams Institute of Medical Sciences. Before his retirement from civil service, he was the Director General of the MCR Human Resources Development Institute and Ex-officio Special Chief Secretary to Govt. of AP. He has served as member of ICMR Scientific Advisory Group, and Core Group of the Department of Health Research. He was a member of the steering group of the National Nutrition Mission. He was a member of the Scientific and Technical Advisory Group of the WHO - Alliance for Health Policy & Systems Research from 2009-15. Dr. Mahapatra has contributed to the Global Burden of Disease estimates published in the World Bank's World Development Report, 1993. He was a consultant to the Asian Development Bank, regarding development of fund mobilization strategy by the Bhutan Health Trust Fund, and development of ADB's India Health Strategy. He has published articles and books in the fields of general administration, rural development, and public health.

G Surendra, Director (03-09-2009 - 10-01-2023)

Sri G. Surendra has rich experience in various areas of public administration, including (a) Planning & Statistics, (b) Rural & Urban Development, (c) Information Technology, and (d) Hospital Management. Prior to IHS, he served as Associate Director & Chief Technology Officer of the LV Prasad Eye Institute, and before that he worked with Planning Department of the Government of AP in various capacities. He is a Certified Information Systems Auditor. He was involved in various health related activities such as Health Financing, Health accounts and Various Health related studies. He presented a Poster on Andhra Pradesh Civil Registration System at First Global Symposium on Health Systems Research at Montreux, Switzerland. Some of other publications to his credits are: Gap Analysis in Rural Health care Facilities in Mahaboobnagar District, Drinking Water Quality Monitoring in Service Reservoirs and Urban

Slums of Hyderabad City, A Study of Emergency Response Services in three districts of Andhra Pradesh, Andhra Pradesh Civil Registration System Study, Assessment of Doctor Availability in Primary Health centers and provide inputs for Human Resource Planning for Health, Medium Term Expenditure Framework for the years 2008-09 to 2012-13 for the Department of Health Medical & Family Welfare, Govt of Andhra Pradesh, Health Budget & Expenditure Tracking for the department of Health, Medical & Family welfare, for the Govt of Andhra Pradesh, Madhya Pradesh and Kerala. He is also implementing the projects on independent water quality monitoring in service reservoirs and urban slums in Hyderabad city and Metro Consumer Complaints Surveillance on Water Safety in Hyderabad. To manage the IHS Laboratory, he has undergone training on Laboratory Quality Management System and Internal Audit as per ISO/IEC 17025:2005 and also attended the training in update version i.e. ISO/IEC 17025:2017.

G. Laxminarayana, Additional Director & Finance Officer (20-10-2022 – 14-04-2023)

Laxmi Narayana Gajavelly received his Masters' degree in Commerce from Osmania University in the year 1989 and awarded Master of Philosophy in 1992 from Kakatiya University, Warangal. He worked as Lecturer in Satavahana Institute of Post Graduate Centre, Karimnagar during 1989 to 1991. In 1992, he joined the State Economic and Statistical Subordinate Service as Deputy Statistical Officer. During his 28 years tenure, he served various departments in different capacities and finally he was elevated to the cadre of Joint Director in Economics and Statistics Department. He played key roles in conduct of various economic censuses and statistical surveys. These include; National Sample Surveys (NSS) - State sample, Economic Census, World Agricultural Census, Minor Irrigation Census. He was actively involved in Integrated Household Survey, also known as the 'Samagra Kutumba Survey', conducted by the Government of Telangana in August 2014. As Monitoring & Evaluation Officer of the District Scheduled Castes Service Co-operative Society he contributed to preparation of Annual Action Plans, monitoring grounding of sanctioned units and evaluation of the benefits accrued to the target group. As MIS of the AP Housing Corporation, he handled procurement of hardware & software and built up the digital backbone for deployment of the Management Information System. He managed the massive exercise for compilation of State Income Estimates and GSDP, District Domestic Product (DDP) and Per Capita Income (PCI) for the years 2011-12 to 2019-20 for newly formed State of Telangana.

G. Vijaya Bhaskar, Additional Director (24-02—2023 onwards) & Finance Officer (14-04-2023 onwards)

Vijaya Bhaskar received his master's degree in philosophy. Before entering Government service, he worked as Sales Executive in "Udyam" daily under the chairmanship of Dasari Narayana Rao, Film Director. Later he worked as Tutor in Girls Junior College, Kurnool district.

He joined in Government Service in the year 1989 and worked as Asst. statistical Officer. He served in various districts in Rayalaseema and Telangana. He came to Hyderabad in 2000-2001 and worked as Superintendent in National Agriculture Insurance Scheme. During this

period, he has covered all districts in the state and participated in the district meetings under NAIS. He is also actively involved in a special programme under NAIS in which many representatives from United Nations organisation made a visit to Andhra Pradesh to supervise crop position and yield arrivals in the low fertility areas. Later he was transferred to the AP Secretariat, Hyderabad and actively involved in UIDAI (Unique Identification Authority of India) and GOI schemes. He worked as Administrative Officer in the Remote sensing Applications, Hyderabad under the chairmanship of Sri SP Tucker.

He served in the District Chief planning Office, Mahboobnagar and was in charge of multifarious activities like Agriculture, ASI, Crop Estimation Survey, and Industrial Statistics MPLADS, ACDP Preparation of Drought reports and attended Chief minister and other ministers Notes for all the meetings chaired by the District Collector. After bifurcation also he worked in the district Chief Planning Office, Mahbubnagar, Government of Telangana. He has actively involved in Samagra Kutumba Survey in the month of August 2014. Later he was made in-charge for the Chief Minister's Assurances in AP Secretariat, Amaravathi. He is also actively involved in key performance Indicators and Smart village smart ward programmes.

Later he made over In-charge of Administration in the Directorate of Economics and Statistics, Vijayawada. He has attended all the activities Administration including Court cases for a period of four years. Later he has shifted to Industrial Statistics, Annual Survey of Industries, Prices, and Economic Census. During his regime he contributed well in releasing the five publications on Industrial statistics.

Sudhakar Damera, Faculty & Asst. Director

Sudhakar Damera received his Masters' degree in Environmental Sciences from the Osmania University and has an Advanced Diploma in Industrial Safety from DM Polytechnic, Nagpur. Till recently, he was sponsored by the UNICEF as a Senior Research Fellow and NABL Documentation Specialist for Drinking Water & Sanitation Program Management, in the office of Chief-Engineer-cum-Executive Director, Jharkhand Government. Earlier, he was a Research Fellow at the CSIR - National Environmental Engineering Research Institute (NEERI), Nagpur, from 2012-2018. At NEERI, he worked on various aspects of water safety including monitoring and surveillance of water quality in rural areas, research and development of water treatment technologies, and training for capacity building. His work on treatment technologies was about removal of excess minerals and toxic substances like arsenic, chromium, selenium and fluoride from water using electrocoagulation technique. He was a trainer-demonstrator of water quality parameter testing to laboratory staff from various State Rural Water Supply Agencies and Pollution Control Boards. During his Masters' program, he completed a project on estimation of major and trace elements present in soil samples nearby Uppal, Hyderabad.

Dr. Mathru Ramavathu, Faculty & Asst. Director

Dr. Mathru Ramavathu did his medical graduation in Naturopathy and Yogic Sciences (BNYS) in the year 2016 and did Master's in Public Health (MPH) from University of Hyderabad in 2019. He also did his PG Diploma in Emergency Medicine from Symbiosis

International University, Pune in 2020. He did his internship in Gandhi Nature Cure Hospital, ESIC Medical College, Hyderabad and at Ashray Akriti an NGO (on hearing impairment -Profile writing and camp coordinator). He got one year of clinical experience as General Duty Medical Officer in Covid Care Center, Nuzvid and as AYUSH Medical officer under RBSK for 6 months. He also worked as duty medical officer in various hospitals (Naturopathy and Allopathy) in Hyderabad for 5 years. He worked as a field investigator for the project "Health and Well Being of Cotton Seed Girls" in Telangana and Maharashtra for 6 months. His areas of interest: Monitoring and evaluation of health programme, public health Finance and research, Maternal and child health. Presently he is working in IHS as Faculty and Assistant Director focusing on the development of survey instrument and protocol for patient satisfaction survey for AYSUH hospitals.

Visiting Faculty:

Prof Dayakar Thota

Dr Dayakar Thota is an Ex-Armed Forces Medical officer and also holds his PG in Hospital Administration from University of Pune. He served the Indian Army from 1971 to 1994 and took part in 1971 Indo-Pak war as well as IPKF operations in Sri Lanka. He holds a Masters' degree in Defence Sciences from Madras University. Dr Thota is a qualified Lead Quality Assessor and trained NABH assessor and also a Certified Six Sigma Black Belt.

Prof (Lt. Col) Dayakar Thota was long term Medical Director for Ramdevrao Hospital, a charitable hospital located in Kukatpally, Hyderabad and currently he is executive member of the Ramdevrao Hospital and also the Governing Body of member of HIS. Dr Thota's versatile experience includes; (a) Professor & Head of Department of Hospital Administration at Kamineni Institute of Medical Sciences, (b) Chief Learning Officer, Health Management & Research Institute, Hyderabad (104), (c) Director, Institute of Health Systems, Hyderabad, (d) Medical Director, Emergency Management & Research Institute (108), Hyderabad, (e) Management Consultant & Additional Director (Hospital Services), MGM Medical college Hospital, Aurangabad, (f) Medical Superintendent and Professor, Dept. of Hospital Administration, Nizam's Institute of Medical Sciences (NIMS), Hyderabad, (g) Additional Director, Dhirubhai Ambani Hospital, Lodhivali, Maharashtra, (h) CEO, Lokmanya Hospital, Chinchwad, Pune, (i) Professor of Hospital Administration & Deputy Medical Superintendent, Kasturba Hospital (MAHE), Manipal. He has audited of a number of HCEs for ISO certification. Dr Thota is a life member of professional bodies such as AHA, AHHA, AGE, ISHA, IAMI and IHS.

Ms. Srilatha Sivalenka:

Ms Srilatha Sivalenka is a graduate in nursing, holds a masters' degree in social science (public personnel management) and Takemi Fellowship in International Health from the Harvard University. During her graduation, she was a recipient of the USAID award for outstanding performance in the nursing course curriculum. She has been a Ph. D. scholar at the Tata Institute of Social Sciences 2105-2022).



Ms Srilatha Sivalenka is currently a Senior Consultant with the UNICEF Hyderabad. Earlier she was a Senior Public Health Specialist of the United States Centers for Disease Control (CDC), posted at Hyderabad from 2007 to 2020. Her outstanding contributions towards operationalizing index testing in India and strengthening the strategic information capacity of HIV program in Sri Lanka under the President's Emergency Plan for AIDS Relief (PEPFAR) was recognised by the US Embassy New Delhi. She was recognised by the US Embassy New Delhi for exemplary service in the area of Prevention of Parent to Child Transmission of HIV, and received United States Mission Honor Award for taking the lead in data quality management and analysis for the pre-ART surge. The US CDC specially commended her for exemplary service in the area of HIV treatment (Pre ART Surge). Earlier she worked a Program Manager in PATH, Hyderabad.

She was a Faculty at the Institute of Health Systems from 1996 to 2003. During this period, she took interest in a wide range of projects and activities including preparation of standards, quality assurance in health care organisation, consensus development methods, reproductive, and child health. She worked in a collaborative project in technology information forecast assessment at the Administrative Staff College of India. The project used consensus development methods to forecast technology trends for identified areas of health problems. Her papers and publications include quality assurance in nursing, and quality of reproductive health care provided in private hospitals.

Research, Laboratory and General Support Personnel:

P. Sravanthi Reddy, Chemical Analyst:

P. Sravanthi Reddy graduated in Chemistry and then did a PG Diploma in Chemical Analysis & Quality Assurance from Osmania University. Her project work during the PG Diploma course was on "Detection and Estimation of Alcohol in Biological Fluids" by Means of Gas Chromatography at Central Forensic Science Laboratory (CFSL), Hyderabad. She worked as a Project Analyst (2005-07) in Telangana Pollution Control Board (TPCB - Central Laboratory), Hyderabad. In 2008 she received Masters' Degree in Chemistry from Nagarjuna University. She then worked (2008-09) as Analyst for Universal Enviro Associates Pvt Ltd, dealing with water analysis. Prior to joining IHS, she was Team Leader - Environment in Bhagavathi Ana Labs Pvt. Ltd., Hyderabad and received Internal Auditor training on integrated management systems. She is Chemical Analyst at IHS since 1st Aug, 2017.

B.V. Victoria, Senior Microbiologist:

B.V. Victoria, did her postgraduation in Biotechnology in 2017, from University College of Science, Hyderabad, affiliated to Osmania University. She did the project "Isolation & Identification of *E. coli* & Lambda phage by Multiplex PCR" from Mahatma Gandhi National Institute of Research & Social Action, Hyderabad, that is published in International Journal of Applied Research 2017;3(5): 827-829. She attended the seminars related to DNA. She completed an Internship in Microbiology Lab Technique at IHS Laboratory from 27th April 2018 to 10th

July 2019. She worked as Microbiologist in Vitro Labs from July 2019 to Sep 2019. She joined the IHS Microbiology Lab on 30-09-2019. She was appointed as Senior Microbiologist with effect from 01-03-2023. On 21-09-2023, she proceeded on maternity leave.

Harshada Santosh Valanju, Chemical Laboratory Technician

V. Harshada did her post-graduation in environmental science from Padmashri Vikhe Patil College of Arts, science, and Commerce, Ahmednagar in 2019. She worked in Skylab Analytical Laboratory (Kalyan, Mumbai) as Junior Chemist in water and wastewater analysis in July 2019 to March 2020. She has completed her internship in laboratory techniques at the Institute of Health Systems Laboratory from 1st June 2022 to 31st May 2023. On 13-06-2023, she joined the IHS Laboratory as Chemical Lab Technician at the IHS Laboratory.

A. Nikitha, Laboratory, Microbiologist:

Nikitha did her Post Graduation in Microbiology, from Siddhartha Degree & PG College affiliated to Osmania University in 2018. She completed her internship in Microbiology Laboratory Techniques at IHS Laboratory from 12-10-2020 to 31-01-2022. After completion of her internship, she joined on 1-2-2022 as Laboratory Technician in Microbiology. Nikitha was appointed as Microbiologist, with effect from 1-3-2023. However, she resigned later in the year, to take care of her family members. She was relieved on 28-08-2023.

Edhunoori Rupesh Babu, Data Processing Officer & Research Assistant

Rupesh completed his graduation (B.Sc.) in computer science from Stavahana University, in 2018. He managed data entry team in a data management service organisation, from June 2020 to July 2021. He worked in IDFC First Bank as a Finance Executive from August 2021 till December 2022. Rupesh joined the IHS as Data Processing Officer and Research Assistant on 14th December 2022.

Raj Kumar Mabbu, Data Processing Officer & Research Assistant

Raj Kumar did a Diploma in Computer Science and Engineering from St. Mary's at Deshmukhi, from June 2014 to May 2017. He then did his degree in B. Com. from Osmania University, from June 2018 to January 2021. He worked as Management Information System (MIS) Assistant in Pure Energy Pvt. Ltd. From Dec 2021 to February 2023. He joined the IHS as Data Processing Officer and Research Assistant on 1-3-2023.

A. Venkata Sruthi, Accountant cum Front Office Executive

Venkata Sruthi completed her graduation with Microbiology, Botany and Chemistry from Rama Krishna Degree College, Jagtial in 2009. Then she did M.B.A (Finance & Marketing)) at Bandari Srinivas Institute of Technology, Hyderabad in 2004. She got 4.5 years of accounting experience from Sri Lakshmi Developers and Sathavahana ISPAT limited from 2011 to 2019. She also worked as Teacher (part-time) in Springboard Pre School from June 2019 to April 2020. She joined the IHS, on 16-06-2022, as Accountant cum Front Office Executive and Lab Registrar and served till 31st October 2022.

K. Lakshmi Deepthi, Accountant:

Lakshmi Deepthi graduated in 2019, from Nagarjuna University, with B. Com (Computers). She worked as Office Admin Executive for two years in Hetero Med Solutions. She completed her internship in Accounts and Front Office Operations at the IHS from 15-11-2022 to 30-11-2023. She is the Institute's Accountant, from 01-12-2023.

K. Prabhakar, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Nava Chaitanya Junior College, Hyderabad affiliated to the State Board of Intermediate Education. Completed internship at IHS on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), by 31st Aug 2015. He is working as Water Quality Investigator / Field Surveyor for MCC since June 2017.

D. Ashok Kumar, Water Quality Investigator:

Graduate in B.Sc Botany, Bio-Technology and Chemistry from National Degree College, Palvancha which is affiliated to the Kakatiya University. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 24th July 2017. He worked as Water Quality Investigator / Field Surveyor for MCC from 01st Aug 2018 to 07th March 2020. Again, he is reappointed as Water Quality Investigator / Field Surveyor for MCC from 1st Dec 2021.

Nagaraju, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Nava Chaitanya Junior College, Hyderabad affiliated to the State Board of Intermediate Education. His internship started at IHS on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), from 15th May 2020 and completed by 31st May 2021. After internship, he is working in IHS as Water Quality Investigator from 1st Jun 2021.

G. Jaya Krishna, Water Quality Investigator (WQI):

Jaya Krishna passed SSC in March 2002 and Intermediate Science in March 2004. He pursued B. Tech (ECE) course at Raja Mahendra College of Engineering & Technology, up to 2008. On 16-12-2009, Jaya Krishna joined the IHS as a Laboratory Intern for Field Testing of Residual Chlorine. On 31-12-2010, he was appointed as a Water Quality Investigator (WQI) cum Data Entry Operator. From October 2011, he was assigned supplemental work to support Data Entry of field-testing records. On 21-09-2020, Jaya Krishna resigned and was relieved on 30-09-2020. Upon resumption of the WQM project in 2023, Jaya Krishna was reappointed and joined as WQI on 28-02-2023.

Mohammed Jilani, Water Quality Investigator (WQI):

Jilani passed SSC in 2016 and Intermediate Science in May 2018. He did internship in Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation),

from 15th May 2020 to 31st Aug 2021. Upon resumption of the WQM project in 2023, Jilani was appointed as Water Quality Investigator and he joined on 13-02-2023.

K. Karthik, Water Quality Investigator (WQI):

Karthik passed SSC in June 2007 and Intermediate Science in May 2012. He used to for promotion of toilet separate and visit big housing complexes. Occasionally he worked for promotional events. In August 2017, he was admitted by the IHS as an Intern Water Quality Investigator and completing the internship by 31-07-2018. Karthik joined the IHS as Water Quality Investigator on 1st August 2018 and continued in the same position till 31-08-2021. He was relieved at this time because the Water Quality Monitoring (WQM) project at IHS was not renewed. Upon resumption of the WQM project in 2023, Karthik was appointed again and joined as WQI on 13-02-2023.

Pittala Narsimha Raju, Water Quality Investigator (WQI):

Narsimha Raju passed SSC in March 2011 from Cambridge High School. He pursued Intermediate course, in Royal Junior College, Mehdiapatnam, till 2012. He worked for some time in billing of water meters and in a Honda showroom. He was admitted as an Intern Water Quality Investigator, on 8th February 2017. He completed the internship by 31st July 2018. In March 2023, Narsimha Raju was appointed as WQI and he joined on 20-03-2023.

Nagula Sandeep, Water Quality Investigator (WQI):

Sandeep passed SSC in March 2010 and Intermediate Science with Mathematics, Physics and Chemistry from Shantiniketan Junior College, Hyderabad, in March 2012. He worked as a Sales Executive in Jio Communications, for two years. His started his internship at IHS, in Water Quality Investigation from 15-05-2020 and completed the internship by 31-08-2021, which coincided with completion of the Water Quality Monitoring project. Upon resumption of the WQM project in 2023, Sandeep was as WQI in February 2023 and joined on 13-03-2023.

Bomma Venkateswarlu, Water Quality Investigator (WQI):

Venkateswarlu passed SSC in March 2009 and Intermediate Science in March 2011. In November 2017, he passed 3-year B.A. in Political Science, Public Administration and Sociology, from BR Ambedkar Open University. He worked in Big Bazaar for some time. On 03-10-2017, he was admitted as Intern Water Quality Investigator (WQI). He completed his internship by 30-09-2018. By end September 2018, he was appointed by IHS and joined as WQI on 01-10-2018. He was relieved by IHS on 31-08-2021 due to completion of Water Quality Monitoring project. In October 2022, Venkateswarlu passed MA in Journalism from the Potti Sreeramulu Telugu University. Upon resumption of the WQM project in 2023, Venkateswarlu was as WQI in February 2023 and joined on 27-02-2023.

Annex-1B

Outgoing Personnel in 2022-23 & 2023-24(Ytd).

Faculties & Associates:

Name	Designation	Join date	Leave date	Remarks
1 G. Surendra	Director	03-09-2009	10-01-2023	Retirement
2 G. Laxminarayana	Addl. Director cum Finance Officer	20-10-2022	14-04-2023	Resignation.
A. Venkata Shruthi	Accountant cum Front Office Executive	16-06-2022	31-10-2022	Resignation.
3 A Nikitha	Microbiologist	01-02-2022	29-11-2023	Resignation.
M.Ajay Kumar	Water Safety surveyor	15-02-2023	16-06-2023	Resignation
5 D.Giridhar	Water Safety surveyor	01-03-2021	19-11-2022	Terminated
6 M..Durga Prasad	Water Quality Investigator	13-02-2023	31-07-2023	Terminated
7 M.Pavan Kalyan	Water Quality Investigator	13-02-2023	25-09-2023	Terminated
8 K.Kalyan Kumar	Water Quality Investigator	13-02-2023	26-08-2023	Terminated
9 V.Mahesh Kumar	Water Quality Investigator	27-03-2023	20-05-2023	Terminated
10 Bheemani Satyanarayana	Front Office Exe & Lab Registrar	10-11-2022	04-02-2023	Absconded

Notes: Join date is the first day of the current spell of personal affiliation with Institute. However, the nature of initial affiliation might have been different from the status at the time of exit. For example, a person may join as an intern or apprentice and may then be employed by the Institute at the end of internship. Similarly, the designation of those employed may change from the date of entry to the date of exit.

Annex-2

IHS Participation in Training Programs, Workshops, Seminars and Conferences in 2022-23 & 2023-24 (Ytd)

P. Sravanthi Reddy, Chemical Analyst and Research Associate

Course/Workshop Title	Institution	Dates
Awareness training on ISO/IEC 17025: 2017	Training by G. Srikanth Reddy, Consultant from Spark Analytics, Hyderabad.	2022 May 23
India Lab Expo 2022 at Hitex Exhibition centre, Hyderabad.	Analytical Anacon India by Messe Muenchen India Pvt. Ltd. Mumbai	2022 Sep 16

B. V. Victoria, Microbiologist

Course/Workshop Title	Institution	Dates
Awareness training on ISO/IEC 17025: 2017	Training by G. Srikanth Reddy, Consultant from Spark Analytics, Hyderabad.	2022 May 23
India Lab Expo 2022 at Hitex Exhibition centre, Hyderabad.	Analytical Anacon India by Messe Muenchen India Pvt. Ltd. Mumbai	2022 Sep 16

Sudhakar D, Faculty & Assistant Director

Course/Workshop Title	Institution	Dates
Awareness training on ISO/IEC 17025: 2017	Training by G. Srikanth Reddy, Consultant from Spark Analytics, Hyderabad.	2022 May 23

A. Nikitha, Laboratory Technician

Course/Workshop Title	Institution	Dates
Refresher training on Total viable count	Internal training at The Institute of Health Systems by B.V. Victoria, Microbiologist	2022 Apr 18
Refresher training on Bacterial Endotoxin Test (BET)	Internal training at The Institute of Health Systems by B.V. Victoria, Microbiologist	2022 Apr 19
Awareness training on ISO/IEC 17025: 2017	Training by G. Srikanth Reddy, Consultant from Spark Analytics, Hyderabad.	2022 May 23
India Lab Expo 2022 at Hitex Exhibition centre, Hyderabad.	Analytical Anacon India by Messe Muenchen India Pvt. Ltd. Mumbai	2022 Sep 16

V. Harshada, Intern in Laboratory Technique

Course/Workshop Title	Institution	Dates
India Lab Expo 2022 at Hitex Exhibition centre, Hyderabad.	Analytical Anacon India by Messe Muenchen India Pvt. Ltd. Mumbai	2022 Sep 16

Annex-3

IHS Publications in 2022-23 & 2023-24 (Ytd)

Public Reports, RP Series:

PubId	Title	Pages
RP67/23	Development of Survey Instrument for Patient Satisfaction Survey in Ayurvedic Teaching Hospitals in Telangana State. Prasanta Mahapatra, G. Surendra, Mathru Ramavathu	45 +AP27

Note: AP27 = Appendix Pages: 27.

Classified Reports, RC Series:

PubId	Title	Pages
RC37 /06	Water Quality in Reservoirs of Hyderabad (2005-06), Report prepared for the Hyderabad Metropolitan Water Supply and Sewerage Board, Government of Andhra Pradesh. C.K.George and Saritha K	9
RC43 /07	Report of the Public Private Partnerships for Water Safety in Hyderabad (2006-07). C.K.George and Saritha K	102
RC55 /11	Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums in Hyderabad (2009-10)- A Report. Prasanta Mahapatra, G.Surendra, Poonam Bachhav	60
RC60 /13	Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums in Hyderabad (2010-13) A Report. G. Surendra, G. Amrutha, E. Dinesh	264
RC61 /15	Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums in Hyderabad City. G. Surendra, G. Amrutha	264
RC63 /17	Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums of Hyderabad City, A Report for 2015. Prasanta Mahapatra, G. Surendra	92
RC64 /21	A Study of Consumer Complaints Regarding 'Polluted Water Supply' By The Hyderabad Metro Water Board. Prasanta Mahapatra, G. Surendra	
RC66 /21	A Study of Consumer Complaints and Water Safety in Hyderabad: 2017-18 Report. Prasanta Mahapatra, G. Surendra	61 + A15
RC67 /22	Annual Report on Water Quality Monitoring of Service Reservoirs & Slum Areas in Hyderabad City, 2017-18.	12

PubId	Title	Pages
RC68 /22	Annual Report on Water Quality Monitoring of Service Reservoirs & Slum Areas in Hyderabad City, 2018-19.	27
RC69 /22	A Study of Consumer Complaints and Water Safety in Hyderabad: 2018-19 Report. Prasanta Mahapatra, G. Surendra	79
RC70 /22	A Study of Consumer Complaints and Water Safety in Hyderabad: 2019-20 Report. Prasanta Mahapatra, G. Surendra	84
RC71 /23	Annual Report on Water Quality Monitoring of Service Reservoirs & Slum Areas in Hyderabad City, 2019-20.	20
RC72 /23	Annual Report on Water Quality Monitoring of Service Reservoirs & Slum Areas in Hyderabad City, 2020-21.	
RC73/23	A Study of Consumer Complaints and Water Safety in Hyderabad: 2020-21 Report.	87
RC74/23	A Study of Consumer Complaints and Water Safety in Hyderabad: 2021-22 Report.	77

Note: Starting with this year, reports that contain client organization's operational data are classified. Some of the previous reports have been classified based on client concerns about confidentiality of their operational data. These reports may be released to public in future, based on reassessment of respective client's operational needs and concerns, if any. A15 means 15 pages in the annex to the report.

Annex -4A:

Fellows, Interns and Apprentices at the Institute in FY 2022-23 & 2023-24 (Ytd, 10-01-2024).

Fellows: None

Interns:

Valanju Harshada Santosh, Intern in Chemical Laboratory Technique:

Harshada passed B.Sc. in Botany from University of Mumbai, in 2016. She completed M.Sc. in Environmental Science from Savitribai Phule Pune University, in 2019. She worked as a junior chemist in Skylab Analytical Laboratory, Kalyan for 8 months. On 1st June 2022, she was admitted by the IHS as an Intern in Chemical Laboratory Technique. She successfully completed her internship by 31-05-2023. Subsequently, she was appointed by the Institute as a Chemical Lab Technician and she joined on 13-06-2023.

K. Lakshmi Deepthi, Intern in Chemical Laboratory Technique:

Deepthi completed her B.Com. (Computers) from Nagarjuna University, in 2019. On 15-11-2022, she was admitted by the Institute as Intern in Accounts cum Front Office Operations. She successfully completed her internship by 30-11-2023. After completion of her internship, she has been appointed by the Institute as Accountant and she joined on 01-12-2023.

Chiluka Madhuri, Intern in Microbiology Laboratory Technique:

Madhuri passed B.Sc. in Zoology, Microbiology and Chemistry (ZMC) from Osmania University in 2019. She completed M.Sc. in Microbiology from Osmania University by July 2021. On 21st February 2023, she was admitted by the IHS as an Intern in Microbiology Laboratory Technique and is continuing her internship.

Lavanya Boya, Intern-Microbiology Laboratory Technique:

Lavanya passed B.Sc. in Microbiology, Chemistry and Computer Applications (MCCA) from Osmania University in 2020. She completed M.Sc. in Microbiology from Osmania University by July 2022. On 22nd February 2023, she was admitted by the IHS as an Intern in Microbiology Laboratory Technique. She is continuing with her internship.

Baindla Bhargavi Intern in Microbiology Laboratory Technique:

Bhargavi passed B.Tech. in Diary Technology from the PVNR Telangana Veterinary University in June 2019. By May 2022, she completed M. Tech. (Diary Science) in Diary Microbiology from Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar. University by July 2022. On 27th February 2023, she was admitted by the IHS as an Intern in Microbiology Laboratory Technique. She is continuing with her internship.

Behara Rama Krishna, Intern Data processing & System Administration:

Rama Krishna passed B.Sc. in Electronics from the Osmania University in July 2022. On 27th February 2023, he was admitted by the IHS as an Intern in Data Processing and System Administration. He is continuing with her internship.

Mamilla Sanjana, Intern in Front Office & Accounts:

Sanjana passed B.Com. from Dr. BR Ambedkar Open University in February 2022. After graduation, she worked as a Receptionist and Billing clerk in Vijaya Diagnostics from March 2022 to Feb 2023. Previously she had worked as Customer Relationship Executive in Max Retails from 2015 to 2019 and as Customer Service Executive in Go Colors from Sep 2020 to Dec 2021. On 2nd March 2023, she was admitted by the IHS as an Intern in Front Office and Accounts. She is continuing with her internship.

Mahammad Mehamood Water Safety Surveyor:

Mehamood passed B.Tech. in Electrical & Electronics Engineering (EEE) from the Jawaharlal Nehru Technological University (JNTU) in May 2016. From June 2017 to October 2018, he worked as a Process Associate for Ford Search a subsidiary of Karvy Data Management Services. From December 2018 to June 2019, he worked as MIS Reporter of I Process in ICICI Towers. From July 2019 to January 2021, he worked as MIS Executive in Deal Money Securities. On 24th June 2023, he was admitted by the IHS as an Intern in Water Safety Survey. He is continuing with his internship.

Swarnanjali Sabavath, Intern in Microbiology Laboratory Technique:

Swarnanjali passed B.Sc. in Microbiology from the Osmania University in October 2020. She completed M.Sc. in Microbiology from Osmania University in July 2022. On 7th August 2023, she was admitted by the IHS as Intern in Microbiology Laboratory Technique. She is continuing with her internship.

E. Sravanthi, Intern-Microbiology Laboratory Technique:

Shravanthi passed B.Sc. in Microbiology from the Osmania University in November 2020. She completed M.Sc. in Microbiology from Osmania University in 2023. On 9th October 2023, she was admitted by the IHS as Intern in Microbiology Laboratory Technique. She is continuing with her internship.

Daggumalli Suguna Mary, Intern in Microbiology Laboratory Technique:

Suguna Mary passed B.Sc. in Microbiology from the Osmania University in October 2020. She completed M.Sc. in Microbiology from Osmania University in September 2022. In 2023, she completed Diploma in Clinical Research Medical Writing & Clinical Data Management from Nomad Life Sciences. On 4th January 2024, she was admitted by the IHS as Intern in Microbiology Laboratory Technique. She is continuing with her internship.

Apprentices:

All in Water Quality Investigation (WQI) i.e., Field Testing of Residual Chlorine (FTRC) and Water Sample Collection.

Pechetty Nagamahesh:

Nagamahesh passed Secondary School Certificate examination in March 2019, and Intermediate in Science, in March 2021. On 03-11-2022, he was admitted as an apprentice in FTRC & Sample Collection. Towards end of his internship, Nagamahesh got selected by the Indian Army. He was allowed to complete his internship and was relieved on 26-10-2023. It is learnt that he joined the Army on 27-10-2023.

Momilla Saikumar, Apprentice, Water Quality Investigation:

Sai Kumar passed 10th class in 2017 and Intermediate Science (MPC) in 2019. He worked from January 2021 to June 2022 in Good Health Insurance TPA. On -8-02-2023, Sai Kumar was admitted as an apprentice WQI and is continuing.

D. Dhanu Teja, Apprentice, Water Quality Investigation:

Dhanu Teja passed Intermediate Science in June 2019. From June 2019 to 2022, he assisted in quality assurance of materials for highway construction work by Megha Engineering works. On 20-02-2023, he was admitted as an apprentice WQI and is continuing.

Rajavarapu Hemanth Kumar, Apprentice, Water Quality Investigation

Hemanth Kumar passed SSC in 2018 and Intermediate Science in March 2018. On 27-03-2023, he was admitted as an apprentice WQI and is continuing.

Mulakala Madhusudan Rao, Apprentice-Water Quality Investigation

Madhusudhan Rao passed SSC in 2013 and Intermediate Science in 2017. He worked as a Dispatcher of Airtel Broad Band services at Planet PCI for 2½ years. On 10-05-2023 he was admitted as an apprentice in WQI and is continuing.

Chinmala Arun, Apprentice, Water Quality Investigation

Arun passed SSC in 2019 and Intermediate Science in 2021. On 29-05-2023 he was admitted as an apprentice in WQI and is continuing.

Andekari Vijay Sai (Vijay Sai), Apprentice-Water Quality Investigation

Vijay Sai passed SSC in 2015 and Intermediate Science in 2019. On 12-06-2023 he was admitted as an apprentice in WQI and is continuing.

Sigilipelli Prasanth, Apprentice, Water Quality Investigation

Prasanth passed SSC in 2015 and Intermediate Science in 2017. On 12-06-2023 he was admitted as an apprentice in WQI and is continuing.

Maisain Laxmi Narsimha, Apprentice-Water Quality Investigation:

Laxmi Narsimha passed SSC in 2017 and Intermediate in 2019. He worked as a Dispatcher of Airtel Broad Band services at Planet PCI for 2½ years. On 03-10-2023 he was admitted as an apprentice in WQI and is continuing.

Talari Sravan Kumar, Apprentice-Water Quality Investigation

Sravan Kumar passed SSC in 2008 and Intermediate Science in June 2011. He studied for graduation in Vignana degree college from 2012 to 2015 and is pursuing to clear the backlog papers. He has experience as a freelance courier and served the IHS for several months to carry samples from field posts to the laboratory. On 03-10-2023 he was admitted as an apprentice in WQI and is continuing.

Annex - 4B

Outgoing Fellows, Interns and Apprentices, in 2021-22 & 2022-23 (Ytd).

Fellows: None

Interns:

Name	Practice & Skill	Join date	Leave date	Remarks
1 Thota Naga Swetha. BSc. 2022 Aug.	Chemical Lab Technique	06-04-2022	10-03-2023	Resigned to pursue further studies
2 Shivala Ashok Kumar. SSC, 2011; Dip Electronics & Commun Engg, 2015.	Water Safety Survey	15-05-2023	15-05-2023	Dropped out same day. No response. No interest. Terminated.
3 Chamakura Siva Prasanna. BSc. 2021	Chemical Lab Technique	20-05-2023	11-08-2023	Resigned due to Health issues.

Apprentices:

Name	Practice & Skill	Join date	Leave date	Remarks
1 Bala Muralidhar Rao. SSC, 2013; Inter CEC, 2015; ITI Electrical, 2015	WQI	27-02-2023	28-02-2023	Dropped out in 2 days. No interest. Terminated.
2 Mohammad Jilani. SSC, 2014; Inter Sc. 2017.	WQI	15-05-2023	16-05-2023	Dropped out after 1 st day. No interest. Terminated.
3 Bhonagiri Mahesh. SSC, 2012; Inter Sc. 2015.	WQI	16-05-2023	16-05-2023	Dropped out on the same day.
4 Budumala Narahari. SSC, 2013; Inter Sc. 2015. Exp as Sales Executive: 4Yrs.	WQI	29-05-2023	31-05-2023	Dropped out in 2 days. No interest. Terminated.
5 Chelimella Babu. SSC, 2016; Inter Sc. 2019.	WQI	22-06-2023	09-09-2023	Dropped Out. No interest. Terminated.
6 Lella Vignesh. SSC, 2017; Inter Sc 2019.	WQI	27-06-2023	04-09-2023	Dropped Out. Irregular Attendance.
7 Mukkat Santosh Kumar. SSC, 2016; Inter Sc, 2019.	WQI	02-01-2024	10-01-2024	Dropped Out. No Interest. Terminated

Annex-5

Revenue from IHS Laboratory Services

Year	Source of Revenue				Total
	HMWSSB	EM-ResPj	IM-ResPj	AWTAPH	
2006-07	12,80,650	2,12,521	0	20,575	15,13,746
2007-08	12,63,000	4,50,000	0	34,465	17,47,465
2008-09	11,78,680	4,12,670	0	45,913	16,37,263
2009-10	15,19,475	1,00,800	0	75,375	16,95,650
2010-11	30,57,846	2,03,500	0	96,325	33,57,671
2011-12	39,66,215	8,400	0	92,700	40,67,315
2012-13	48,32,964	0	0	89,775	49,22,739
2013-14	36,70,530	1,32,750	0	90,000	38,93,280
2014-15	52,95,762	35,040	0	1,31,450	54,62,252
2015-16	63,47,591	16,000	0	2,45,925	66,09,516
2016-17	66,07,801	2,25,368	1,59,000	3,65,265	73,57,434
2017-18	82,38,634	1,71,269	6,00,000	4,65,252	94,75,155
2018-19	88,66,030	0	10,61,000	4,16,001	103,43,031
2019-20	94,24,789	1,17,350	15,11,400	3,23,200	113,76,739
2020-21	99,05,261	1,11,209	7,56,000	2,20,060	109,92,530
2021-22	41,55,000	2,52,295	11,88,000	3,36,554	59,31,849
2022-23	8,31,000	0	18,00,000	12,32,848	38,63,848
2023-24Ytd	108,33,285	0	12,12,450	9,93,544	1,30,39,279

HMWSSB = Hyd Metro Water Supply & Sewerage Board - monitoring of residual chlorine in reservoirs, and slum area; ResPJ-EM = Water quality testing services for research projects in other (extramural) agencies, ResPj-IM = Water quality testing services for research projects in IHS, Public = Over the counter, water quality testing services to general public.

Annex-6:

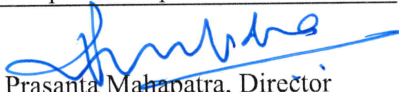
IHS Revenue Trends by sources and by activity

Year	Gross Revenue			Revenue by Type of Activity			
	Domestic	Foreign	Total	Research & Consultancy	Public Services	Academics & Training	Others
1999	₹ 20,66,525	₹ 0	₹ 20,66,525	₹ 14,40,625	₹ 42,542	₹ 6,65,900	₹ 1,41,553
2000	₹ 42,49,243	₹ 27,20,925	₹ 69,70,168	₹ 38,34,275	₹ 21,569	₹ 12,37,020	₹ 28,65,737
2001	₹ 45,60,092	₹ 56,68,363	₹ 1,02,28,455	₹ 95,27,906	₹ 36,152	₹ 5,96,257	₹ 68,140
2002	₹ 71,62,946	₹ 24,51,095	₹ 96,14,041	₹ 70,29,835	₹ 37,236	₹ 15,56,105	₹ 9,90,865
2003	₹ 67,18,690	₹ 47,84,857	₹ 1,15,03,547	₹ 93,89,693	₹ 53,384	₹ 10,43,050	₹ 2,79,991
2004	₹ 73,29,734	₹ 8,26,363	₹ 81,56,097	₹ 66,76,243	₹ 1,42,190	₹ 7,44,408	₹ 6,20,288
2005	₹ 41,80,215	₹ 4,70,160	₹ 46,50,375	₹ 38,72,674	₹ 98,175	₹ 0	₹ 6,79,526
2006	₹ 53,19,507	₹ 18,45,761	₹ 71,65,268	₹ 55,55,979	₹ 10,45,095	₹ 0	₹ 6,12,519
2007	₹ 68,98,526	₹ 14,14,996	₹ 83,13,522	₹ 70,10,918	₹ 11,64,000	₹ 0	₹ 1,38,604
2008	₹ 79,85,882	₹ 8,40,277	₹ 88,26,159	₹ 75,64,690	₹ 11,74,555	₹ 0	₹ 86,914
2009	₹ 48,08,436	₹ 0	₹ 48,08,436	₹ 26,47,624	₹ 15,15,120	₹ 1,75,000	₹ 4,70,692
2010	₹ 67,74,122	₹ 0	₹ 67,74,122	₹ 50,54,076	₹ 12,85,368	₹ 0	₹ 4,34,678
2011	₹ 46,99,440	₹ 0	₹ 46,99,440	₹ 10,30,706	₹ 29,07,903	₹ 0	₹ 7,60,831
2012	₹ 94,08,422	₹ 0	₹ 94,08,422	₹ 50,88,933	₹ 40,77,380	₹ 0	₹ 2,42,109
2013	₹ 58,09,751	₹ 0	₹ 58,09,751	₹ 0	₹ 49,22,964	₹ 0	₹ 8,86,787
2014	₹ 53,56,163	₹ 0	₹ 53,56,163	₹ 2,72,700	₹ 38,95,080	₹ 0	₹ 11,88,383
2015	₹ 69,65,291	₹ 0	₹ 69,65,291	₹ 8,53,800	₹ 54,62,252	₹ 0	₹ 6,49,239
2016	₹ 64,19,805	₹ 0	₹ 64,19,805	₹ 1,68,000	₹ 59,80,642	₹ 0	₹ 2,71,163
2017	₹ 75,90,076	₹ 0	₹ 75,90,076	₹ 4,32,859	₹ 62,15,371	₹ 1,62,000	₹ 7,79,846
2018	₹ 1,18,02,862	₹ 0	₹ 1,18,02,862	₹ 14,27,577	₹ 77,47,882	₹ 70,000	₹ 25,57,403
2019	₹ 1,33,50,640	₹ 0	₹ 1,33,50,640	₹ 31,49,653	₹ 96,79,790	₹ 10,000	₹ 5,11,197
2020	₹ 1,57,34,668	₹ 0	₹ 1,57,34,668	₹ 41,27,949	₹ 1,13,76,739	₹ 0	₹ 2,29,980
2021	₹ 1,34,89,654	₹ 0	₹ 1,34,89,654	₹ 21,20,352	₹ 1,09,92,530	₹ 0	₹ 3,76,772
2022	₹ 1,04,54,718	₹ 0	₹ 1,04,54,718	₹ 41,64,165	₹ 59,31,849	₹ 0	₹ 3,58,704
2023	₹ 96,74,398	₹ 0	₹ 96,74,398	₹ 53,48,769	₹ 38,63,845	₹ 0	₹ 4,61,784
2024	₹ 1,66,14,225	₹ 0	₹ 1,66,14,225	₹ 35,56,136	₹ 1,26,58,089	₹ 0	₹ 4,00,000

Institute's financial years are from April to March. Here each financial year is represented by the calendar year in which the financial year ends. For example, 1991 = FY 1990-91.

Figures for current financial year (2023-24) is an estimate based on year to date + anticipated receipts.

Date: 22/01/2024


Prasanta Mahapatra, Director

