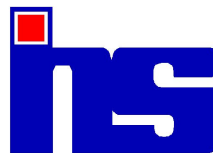


Director's Report 2016 -17

**Presented to Annual General Body Meeting
20th Dec 2017**



THE INSTITUTE OF HEALTH SYSTEMS



The Institute of Health Systems , HACA Bhavan, Hyderabad, TS 500004, India.

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The Institute of Health Systems, Director's Report, 2016-17.

Ladies and Gentlemen,

On behalf of the faculty and staff of the Institute, I welcome you all to this twenty second annual general body meeting. During the reporting period, we continued to strengthening and improve quality of the laboratory services. A special survey of consumer complaints regarding polluted water, lead to the Metro Consumer Complaints (MCC) Surveillance Project, awarded by the Metro Water Board (MWB) to IHS, based on e-tender. The Institute's financial position remained weak during the reporting period, and has modestly improved during the current financial year. The existing staff have worked hard and persevered to keep the Institute going. I gratefully acknowledge the support given by members of the Board, the Executive Council, and the General Body in sustenance of the Institute. I would like to use this opportunity to specially acknowledge the guidance of the IHS Chairman, Dr. G.N.Rao and continued contribution of Dr.Prasanta Mahapatra, President & Dean of the Institute as a supporter and mentor in all aspects. I first present about the Institute's human resources.

Institute's Human Resources, Fellows & Interns:

We are functioning with a small team mostly of water quality testing & laboratory staff (Table-1). As there are no research projects on hand, we could not recruit faculty and research personnel in the reporting period. However, during the current year, we recruited staff to strengthen the laboratory. The expansion in laboratory activities has allowed us to take in more interns and give them practical training in various aspects of laboratory services, field work and information technology support.

Table-1: IHS Human Resources and Stipendiary Interns.

Category of Personnel	As on 31/3/17					As on 01/12/17				
	Emp	Stipnd	Fee	Vol.	Tot	Emp	Stipnd	Fee	Vol.	Tot
Faculty & Consultants	2	0	1	1	4	2	0	1	1	4
Res. Associates / Fellows	0	0	1	0	1	2	0	0	0	2
Res/Field. Investigators	0	0	0	0	0	0	0	0	0	0
Lab Techs / Interns	2	1	0	0	3	2	4	0	0	6
WQT Investigators /	5	1	0	0	6	4	10	0	0	14
Prog. Officer/Back Office	1	0	0	0	1	0	1	0	0	1
Accountant	0	0	0	0	0	0	0	0	0	0
Systems Admin/Pgmr	0	0	0	0	0	0	1	0	0	1
Front Office Staff	1	1	0	0	2	2	0	0	0	2
All	11	3	2	1	17	12	16	1	1	30

¹ The number of service provider personnel may vary as their deployment changes according to the quantity and quality of service commitments to the Institute. The figures indicated here are based on the personnel on most days.

² Emp=Employee, i.e. Salaried; Stipnd=Stipendiary Interns; Vol=Voluntary; Tot=total,

Annexures-1A provides more detail about the current faculty and personnel profiles, of the Institute. A list of outgoing faculty and 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 you are aware, our academic and training programs are now limited to fellows and internships. During the reporting period we hosted one research fellow who got Fulbright-Nehru scholarship sponsored by the US-India Educational Foundation

(USIEF). In addition, we have given practical training to interns in various areas. Details of the fellow and interns are given in Annexures- 3A & 3B.

Now, I will give an overview of activities during the reporting period and also briefly touch upon recent developments during the current year. 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 (2016-17) Events and Activities:

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

A. Research and Consultancy:

We did a "Special Survey of Repeated Consumer Complaints regarding Supply of Polluted Water" at the request of the MWB. Subsequently, we furnished two proposals (1) Intensive Surveillance of Drinking Water Quality in Bholakpur Area, Hyderabad, (2) Metro Water Board Consumer Complaints Surveillance For Water Safety. MWB has floated tender on the 2nd proposal "Metro Water Board Consumer Complaints Surveillance For Water Safety". IHS has participated in the tender got the contract in the current year 2016-17. The list of proposals made in the reporting period and current year with status is given in the Table-2A,B&C for discussion and guidance.

Table-2A: Proposals prior to 2016-17

Sl	Sponsor	Project Proposal	Status
1	Planning Dept., Govt. of Telangana State	Independent Evaluation Unit for Health Systems (IEU@IHS)	Periodical evaluation of (a) primary health care programs, focusing on reproductive & child health services, (b) First referral hospital perf. Analysis, and (c) patient satisfaction surveys in first referral & tertiary hospitals. Still pending with the Planning Dept inspite of again pursuing in the month of May 2017. However, reminder sent on 18-09-2017
2	Planning Dept., Govt. of Telangana State	A Study of Hygiene and Cleanliness of First referral Hospitals in Telangana State	The topic was proposed by the Prl Secretary Planning and proposal was submitted. They asked to reduce the project cost. Revised sample size and reduced project cost, but no response, so far. The last reminder sent on 18-09-2017
3	Health, Medical and Family Welfare Dept, Govt of Telangana State	Training Program for Lay Secretaries in Health Department.	Adequate professional training of Lay Secretaries will help develop management expertise & interdisciplinary team work within the Health Dept. This in turn will improve program implementation & better medical and healthcare services to the public. Prl Sec Health requested IHS to design such training course and give proposal. The proposal was submitted on 6th July 2015. No decision, so far. However, reminder sent on 18-09-2017
4	Society for Elimination of Rural Poverty (SERP), TS.	Building Capacity of Spear Head Teams for Supporting Health & Nutrition Intervns.	Expression of Interest submitted jointly with John Snow India Private Limited (JSIPL) 26/09/2015 for Telangana Rural Inclusive Growth Pj (TRIGP). But SERP has kept these proposals aside for unknown reasons.

Table-2B: Proposals Made & Projects taken up in the year 2016-17

Sl	Sponsor	Project Proposal	Status
1	Planning Dept, Govt of Andhra Pradesh	Estimation of Health Adjusted Life Expectancy (HALE)	The Chief Secretary to Govt. (Plg.) & Member Secretary APSDPS, asked for estimation of Health Adjusted Life Expectancy (HALE) in AP. The proposal was submitted on 25-04-2016, but no response. Apparently, Govt lost interest.
2	Health, Medical and Family Welfare Dept, Govt of TS.	An Evaluation Study on Availability of Doctors in Primary Health Centers of Telangana State, India.	Seeks to measure availability of doctors in PHCs after formation of TS and compare the same with a benchmark available from earlier studies. Proposal with updated cost was resubmitted to the HM&FW Dept, on 25th April 2017. Reminded on 18-09-2017, but no response yet.
3	HMWS&SB	Water Quality Monitoring in Service reservoirs and urban Slums in Hyderabad City.	Renewal proposal was sent to MWB requesting adjustments to cover accumulated price inflation over several years. The MD, MWB was apprised on 22nd April 2016. Renewed for from 2016 July to 2017 June, with 20% enhancement.
4	HMWS&SB	Intensive Surveillance of Drinking Water Quality in Bholakpur Area, Hyd.	Submitted in response to a request from the MD-MWB. In the meanwhile, operational measures appear to have reduced vulnerability of the area. Hence MWB did not pursue.
5	HMWS&SB	Metro Water Board Consumer Complaints Surveillance For Water Safety	Proposal was submitted as a follow-up to the special survey of repeated consumer complaints regarding supply of polluted water. Awarded to IHS after due tendering process and covered in the current year 2017-18.

Table-2C: Projects taken up in the current year 2017 -18

Sl	Sponsor	Project Proposal	Status
1	HMWS&SB	Metro Water Board Consumer Complaints Surveillance For Water Safety	E-tender was issued in Feb 2017. IHS has responded but MWB retendered in April 2017, as it was a single tender. Again IHS has participated and got the contract for Rs 46.59 lakhs. The implementation is in process from 1st June 2017. The survey form has been designed, tested. The sampling manual has been developed and sampling was done for the 1st quarter starting from Apr 17 and survey has been completed. The 1st quarter report is being prepared for submission to MWB.
2	HMWS&SB	Independent Water Quality Monitoring in Service Reservoirs and Slums in GHMC areas.	This year MWB decided to identify agency through open tender, issued on 7th June 17. IHS has participated and got the contract for Rs 88.03 lakhs for a period of one year which started from 1st July 2017. The sample size has been enhanced marginally by the MWB.

B. Academic Programs:

1. Fellowship Program:

During the reporting period we guided one research fellow from University of Maryland who got Fulbright-Nehru scholarship sponsored by the US-India Educational Foundation (USIEF). The topic was "A Study of National Health Mission (NHM) Community Process in Telangana State". The Research Fellow Ms. Vishnupriya Kareddy has done the study from Sep 16 to Aug 2017, completed and presented the findings to the health department officials of Telangana State on 31st Aug 2017.

2. Masters in Public Health (MPH):

There is no much development since last general body meeting, However to recapitulate, it is informed that, Govt. reconfirmed the permission granted to IHS for starting

MPH course vide GOMs77¹. Although the seat matrix and fee structure were approved by their Executive Council, vide their resolutions dated 29/02/2012 and 23/11/2012, the NTR UHS has requested Govt. to include the fee structure and seat matrix approvals in Govt. Order77. On this, Govt. Of Telangana asked the NTRUHS to furnish the details of course status, admission policy, intake capacity, fee structure and seat matrix. NTRUHS in their letter No. 5229/A6/MPH/02 (Vol-II) dt: 24/10/2014 has forwarded the details sent by IHS to Govt. While we are expecting approval from Govt, we received a letter from NTR UHS informing that, govt has issued GO58² approving the admission procedure, Rule of reservation, seat matrix and fee structure in the state of Telangana (GO issued based on proposal from IIPH). These rules were examined by IHS with reference to the MPH Statute which has got assent of the Governor on 7th March 2008 and observed that there is statutory anomaly as the proposal of IIPH was not scrutinised in accordance with the Statute. Hence, IHS, vide letter dated 16-12-2015, has requested the Principal Secretary Health to review the rules communicated in the above GOMs58. So, far no communication is received.

3. IHS Land-High Court case:

The members are aware that there is Public Interest Litigation (PIL) case before the Hon'ble High Court of AP. During the reporting period, the case was listed on several dates in short gaps like on 22/04/2015, 1/06/2015, 22/06/2015 and 06/07/2015. On 1/06/2015, the Court has asked the Government Pleader (GP) to inform the view of the new govt of Telangana on the land allotment to IHS whether retaining with IHS or not in the next hearing date i.e on 22/06/2015. In the meanwhile, IHS has filed the counter affidavit on 19/06/2015. The court met on 22/06/2015 and adjourned to 20/07/2015 for the Govt view. In the meanwhile, Govt has filed the counter reaffirming and justifying the allotment of land in favour of IHS. The case was listed on 24/8/2012 and last on 31/8/2015. No arguments took place on 31/8/2015 and thereafter the case has not been listed. We are pursuing the case through the advocate.

C. Training Services:

The Institute's training program is now limited to skill development internships in laboratory techniques, field testing, sample collection, and ancilliary activities. Table-3 shows an overview of internships offered by the IHS during the reporting period and current year.

Table-3: Overview of Interships at IHS, 2016-17.

Sl Practice & Skill Development	Reporting Year, 2016-17			Current Year 2017-18Ytd		
	Joined	Dropped	Completed	Joined	Dropped	Completed
1 Microbiology / Chemical Analysis Lab Mgmt.	0	0	1	0	0	0
2 Laboratory Technique	1	1	0	5	1	1
3 Field Testing For RC & Sample Collection (Water Quality Investgn)	4	6	1	9	0	0
4 Lab Registry & Front Office, Data Processing, and Pgm Implementation.	1	0	0	2	0	1
Total	6	7	2	16	1	2

Joined: Interns Joined During the Reporting Period. Dropped: Number of interns who discontinued their internship during the year (who might have joined during the current/previous periods); Reasons: Pursue alternate career options, and/or Personal constraints, Completed: Number of persons who completed their internships during the reporting period (who might have joined during the current/previous periods).

¹ GO MS No.77, HM&FW(K1) Deptt., 08/05/2014

² GO Ms No.58, HM&FW (C1) Deptt., 10/07/2015

Number dropped 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-3A gives short biographies of fellows and interns, and Annex-3B gives a list of fellows & interns who left the Institute for various reasons.

D. Public Services:

1. **Public Health Laboratory: Drinking Water Quality Testing Services:** Since last four 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-4 which shows that, the major revenue is being generated from HMWSSB for monitoring water quality at various points of water distribution system operated by them. We made efforts to increase revenue from general clients which is an indicator of popular engagement and trust with the water quality lab. During the year 2016-17, the revenue from general public touched more than Rs 5 lakhs. We focussed on improving the IHS Laboratory facilities and streamlining the procedures and practices. We are in the process of introducing the new tests like Dialysis RO System Feed Water (DRF). We are giving interpretations and recommendations in the test reports which most of the clients are appreciating. We recruited one Chemical Analyst and Research Associate for the chemical lab and a Senior Microbiologist for Biological lab with required supporting staff to improve the laboratory services. NABL accreditation process has been reinitiated and in process.
2. **Registration of IHS Laboratory as Clinical Establishment:** IHS Laboratory has been registered under the TS Allopathic Private Medical Care Establishments (Registration and Regulation) Act 2002 to provide "Diagnostic Type of Services" valid for a period of five years with effect from 30-11-2017³.
3. **Library:** The scope for proactive acquisition of bibliographic resources has been limited due to financial constraints. In addition, lack of space and a full time librarian is a key constraint in developing the library services. To streamline the library, we have weeded out obsolete holdings.
4. **Model PHC (Primary Health Care) System Management:** The proposal for management of health care institutions in two clusters (i) Achampet and (ii) Kodangal of erstwhile Mahboobnagar District is pending with the HM&FW dept of TS.

E. Publications:

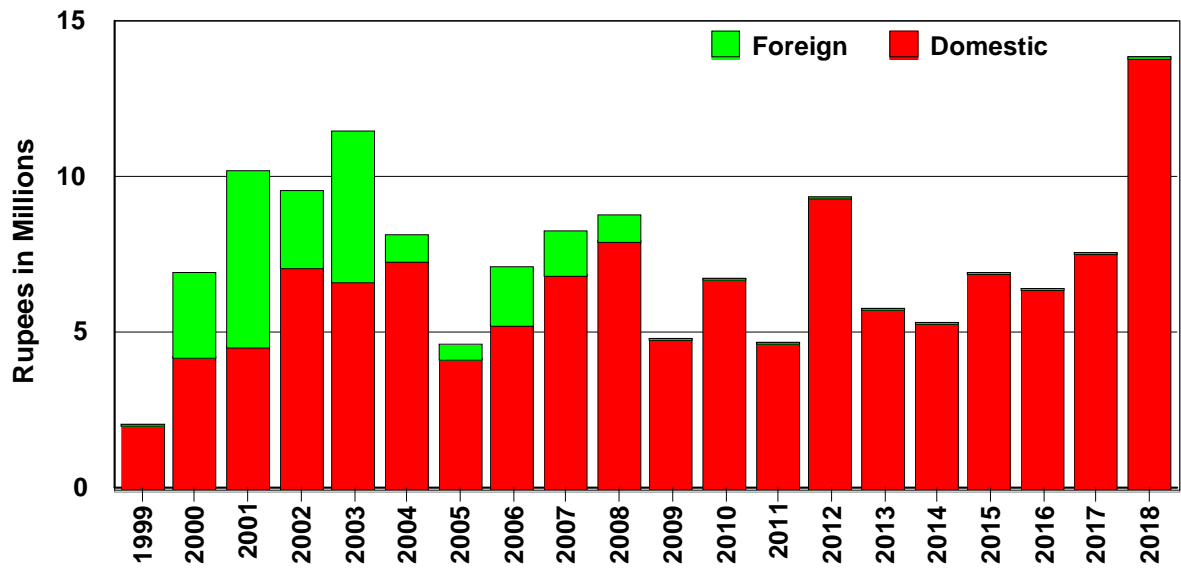
List of IHS publications in the reporting year are given in Annexure-5. List of publications arising out of work at IHS or IHS personnel are in Annexure-6.

Taking Stock of the Institute's Financial Position:

Classification of the Institute's revenue from domestic and foreign sources as well as by activity is given in Annex-7. In Figure-1 the gross revenue generated by the Institute from the financial year ending in March 1999 has been summarized. The average revenue of the IHS has been around Rs 70 lakhs per annum. During the current year, we are expecting modest improvement in receipts to about 139 lakhs. The Institute needs to substantially upscale its activities and improve its finances for effective realisation of its goals. As is evident from Figure-2, most of our revenue has been contributed by Research and Consultancy till 2012. In recent years, receipts from public services has been increasing mainly on account of water quality testing services.

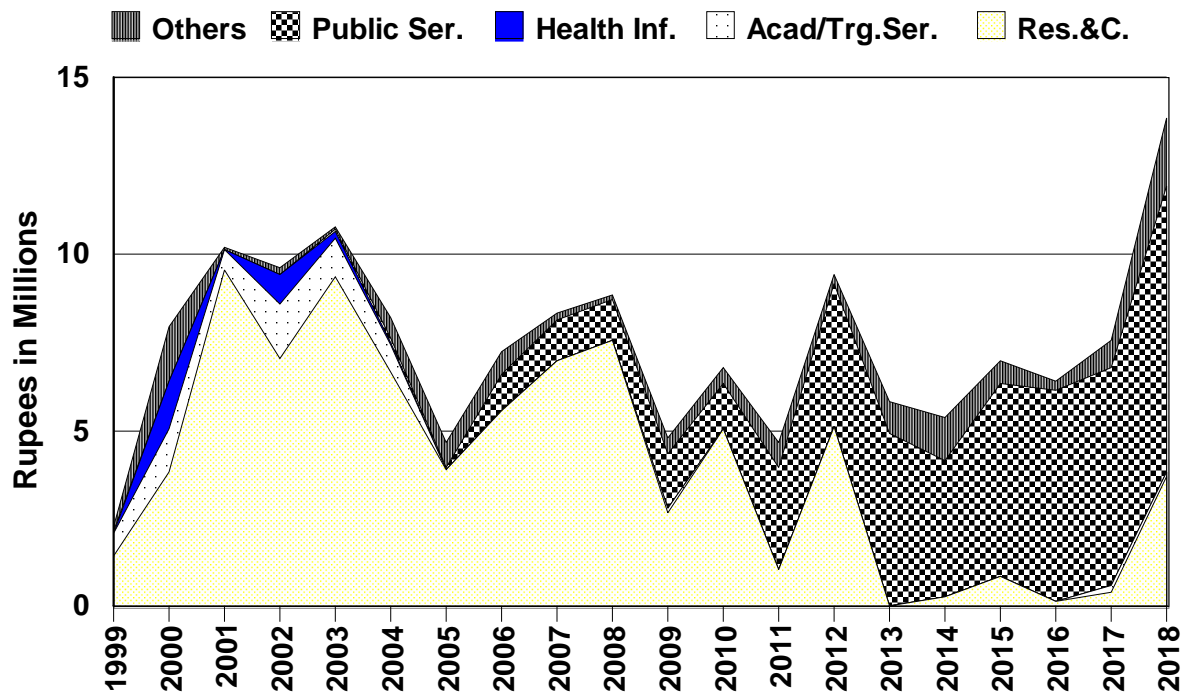
³ DM&HO and Chairman Dist Registration Authority, Hyderabad Dist vide REGD.No.07F-APMCE-1109

Figure-1: IHS Gross Revenue Trend Since 1999



Estimate for 2018 is based on year to date and anticipated receipts.

Figure-2: The IHS receipts by broad area of activities



Estimate for 2018 is based on year to date and anticipated receipts.

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

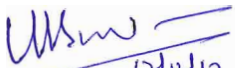
Accounts and Audit Report:

The audited accounts of the Institute for the year 2016 -17, as approved by the Executive Committee, have been 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 advise 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.

Date:12/12/2017


G. Surendra, Director

Annex -1A

Faculty and Personnel Profile Full Time Faculty

G Surendra, Director

Sri G. Surendra has rich experience in various areas of public administration, including; (a) Planning & Statistics, (b) Rural 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 Montroux, Switzerland. Some of other publications to his credits are: Gap Analysis in Rural Health care Facilities in Mahabubnagar 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 project on Independent water quality monitoring in service reservoirs and urban slums in Hyderabad city.

Dr.Prasanta Mahapatra, Dean.

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 sometime 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. Dr. Mahapatra 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 include, 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 has published articles and books in the fields of general administration, rural development, and public health.

Consultant:

Sri Dhananjaya Rao

Sri Dhananjaya Rao did his post graduation in Chemistry and got 20 years laboratory experience by working in various capacities in the laboratories like SGS India Pvt Ltd Chennai, TA labs Chennai, and Bhagavathi Ana Labs Hyderabad. He was Director for Chennai Testing Laboratory Pvt Ltd for 2 years. He is the Lead Assessor as per ISO/IEC 17025, Quality Management Systems (QMS) Lead Auditor (ISO9001:2000), Environmental management System (EMS) Lead Auditor (ISO:14001:2004). He performed nearly 350 assessments as per ISO/IEC 17025 conducted by NABL. Presently he is working as Adjunct Faculty at MIT - Aurangabad and Director for SPARK Analytics. Sri Dhananjaya Rao is extending consultancy on NABL process for IHS Chemical Lab.

Voluntary & 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 Srilanka. He also possesses M.Sc (Defense Sciences) from Madras University. Dr Thota is a qualified Lead Quality Assessor and trained NABH assessor and also a Certified Six Sigma Black Belt.

Currently Prof (Lt. Col) DayakarThota is the Medical Director for Ramdevrao Hospital, a charitable hospital located in Kukatpalli, Hyderabad. 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.

Research, Laboratory and General Support Personnel:

L. Rakesh, Sr. Microbiologist:

Mr. Rakesh did his Masters Degree in Microbiology and has varied experience in industries. He was Effluent Treatment Plant (ETP) Chemist in United Spirits Ltd, Nacharam Hyderabad, maintaining and managing the inflow-outflow to keep treated effluent parameters within regulatory guidelines. As Assistant Executive and a member of the Hazard Analysis and Critical Control Point (HACCP) Team in Pearl Beverages, he implemented sanitation and systems improvements to satisfy various internal quality audits such as American Institute of Baking (AIB) HACCP, Quality Assessment Service (QAS), Good Manufacturing Practices (GMP), Good Laboratory Practices (GLP), and ISO22000-2005. He is familiar with preparation of media for microbial analysis of packaged drinking water, cold-fill and hot-fill

drinks. Before joining IHS, he was Quality Control Executive in Trinity Beverages Pvt Ltd, producing packaged drinking water and other beverages. His role was to manage & maintain plant hygiene in all areas and train shop floor people. Presently he is Senior Microbiologist and Research Associate in IHS since September 2017.

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. Presently she is Chemical Analyst at IHS since 1st Aug, 2017.

M. Lavanya, Laboratory Technician:

Ms Meriga Lavanya, graduated with Chemistry, Microbiology, and Genetics from St. Pious-X Degree & PG College, affiliated to the Osmania University, in 2014. She participated in a hands on workshop in enzymology at Nitza Biological for 5 days from 11th Jul 13 to 15th Jul 13. She completed internship in Laboratory Techniques at IHS by 31st Dec 15. She is pursuing Masters Degree Course in Microbiology by distance education mode from the Acharya Nagarjuna University. Presently, she is working as Laboratory Technician in the Chemical Lab, since 1st Jan 2016.

P. Sai Keerthi, Laboratory Technician:

Ms Pasham Sai Keerthi graduated in Biotechnology from CMR College of Engineering & Technology. Her graduate major project was on "Production and characterization of Probiotic Bacteria from camel milk" at the Jawaharlal Nehru Institute of Advanced Studies (affiliated to JNTU). She worked with Lactobacilli to identify probiotic strains. Minor project was on production of Zindathilismath, from Camphor, Eucalyptus, Thymol and Alkanetrajanot dye. She was trained on PCR Techniques at JNTU Anantapur and attended workshop on Forensic Science at CBIT. She received a silver medal in academics and consolation prize for poster & power point presentation. She did her Masters in Biotechnology with distinction from Sri Indu group of Institutions. Her post graduate project was on "Polymorphisms of Xenobiotic metabolizing enzymes and susceptibility to breast cancer risk", a matched case-control study in south Indian population to investigate the association of GSTM1, GSTT1, GSTP1 and CYP1A1 gene polymorphisms in breast cancer susceptibility. She completed one year internship in Microbiology Lab Techniques at IHS by July 2017. Presently she is Lab Technician in IHS Biological Lab from August, 2017.

D Krishna Veni, Lab Registrar Cum Front Office Executive:

Ms. Dasari Krishna Veni, graduated with Mathematics, Physics and Chemistry from A.V.College, affiliated to the Osmania University, in 2009. She completed an internships on Front Office Management at IHS by 31st March 2010. She is conversant with scope of various laboratory services, registration of laboratory test requests, tracking & delivery of test reports, procurement of office stationery & inventory management, maintenance of library catalogue in

Procite, supporting events & meetings. She maintains contact with clients and follows-up to gather client feedback.

Khaled Bin Seleem:

Sri Khaled graduated in Computer Applications (BCA) from Sri Sai Degree College, affiliated to Osmania University, in 2003. Thereafter, he taught mathematics in Oxford Grammar School and Hyderabad High School, and a Private Tutor, up until 2014. He completed an Internship in Front Office Assistance, at IHS by August, 2017. Presently he is the Front Office Assistant.

G. Jaya Krishna, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Nalanda Junior College, Hyderabad which is 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 Dec 2010.

K.Prabhakar, Water Quality Investigator:

Intermediate with Commerce, Economics and Civics 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.

D.Suresh Kumar, Water Quality Investigator:

Intermediate with Commerce, Economics and Civics from Agarwal Junior College for Boys, Hyderabad affiliated to the State Board of Intermediate Education, Andhra Pradesh. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), by 31st Aug 2015.

Md. Anwar, Water Quality Investigator:

Secondary School Certificate (SSC) with Mathematics, General Science and Social Studies from Sri Sai Vidyalaya High School, Secunderabad affiliated to the State Board of Secondary Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), by 31st Jan 2017.

Annex - 1B**Outgoing Faculty & Personnel
in 2016-17 & 2017-18 (Ytd).****Faculties & Associates:**

Name	Designation	Join date	Leave date	Remarks
2016-17				
None				

Research Assistants & Investigators:

Name	Designation	Join date	Leave date	Remarks
2016-17				
None				

Water Quality Lab Personnel:

Name	Designation /project	Join date	Leave date	Remarks
2016-17				
Abdul Aslam	Water Quality Investigation	22/05/2013	30/04/2016	Resigned, Overseas employment
2017-18				
V Mahesh Kumar	Water Quality Investigator	01/04/2016	01/07/2017	Termination due to unauthorised absence
J. Lakshmi	Laboratory Technician	08-07-2013	15-11-2017	Resignation due to ill health

General Support

Name	Designation/Project	Join date	Leave date	Remarks
2017-18				
V.Srinivas	Program Officer	09-07-2014	31-08-2017	Term Completion

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.

Annexure-2

IHS Participation in Training Programs, Workshops, Seminars and Conferences in the year 2016 -17 & 2017 -18 (Ytd)

Dr. Prasanta Mahapatra, President & Dean:

Course/Workshop Title	Institution	Dates
Stakeholder Consultation on Effectiveness of Urban SHGs on Maternal, Newborn & Child Health & Advisory Group Meeting.	Mahila Abhibruddhi Society (MAS), HUDA Colony, Tanesha Nagar, Manikonda, Hyderabad.	2017 May 05
Launch Event for Communication Resource Unit (CRU) on Institutional Mechanisms for Strategic Communication to Govt.	National Institute of Rural Development, Rajendra Nagar, Hyderabad.	2017 Jul 06
The Sample Registration System (SRS) in India, An Overview, as of 2017.	Registrar General & Census Commissioner, India - Vital Statistics Division.	2017 Jul 24-28
Workshop on National CRVS Verbal Autopsy Sampling Strategies at Swiss Tropical and Public Health, Basel, Switzerland.	Swiss Tropical and Public Health, Basel, Switzerland & University of Melbourne Bloomberg Initiative for Civil Registration & Vital Statistics, Australia.	2017 Aug 14-15
IIHMR-B Board Meeting	Indian Institute of Health Management Research, Bengaluru.	2017 Aug 26

G Surendra, Director:

Course/Workshop Title	Institution	Dates
Training on Laboratory Quality Management System and Internal Audit as per ISO/IEC 17025:2005	Center for Electronics Test and Engineering (CETE), Hyderabad	2016 Mar 15-18

N. Anusha, Intern in Microbiology:

Course/Workshop Title	Institution	Dates
Brain storming on Harnessing stakeholder engagement in improving monitoring and surveillance of drinking water quality in rural Telangana	Saci Waters, Secunderabad	2016 Sep 29

Annex -3A:

Fellows & Interns, in 2016-17 & 2017-18 (Ytd).

Vishnupriya Kareddy:

Vishnupriya Kareddy graduated with the highest distinction from the University of Maryland, College Park (UMD) in 2016 with a B.S. in Biological Sciences (with a concentration in Physiology and Neurobiology) and a B.A. in Government and Politics. During her time as an undergraduate student, she gained experience in clinical and basic science research. She studied the results of ablation therapy on patients with arrhythmogenic right ventricular dysplasia as part of a team at The Johns Hopkins University School of Medicine. Her undergraduate thesis elucidated the gross cellular anatomy of early brain cortex development in a mouse-model of autism spectrum disorder. These research projects resulted in publications in Heart Rhythm and Cell Reports, respectively. In addition to research, Ms. Kareddy led the organization, Justice at UMD, which advocated for the betterment of working conditions for university workers. She also co-founded the University Language Partnership Program at UMD which placed student teaching assistants in English, computer literacy, and GED classes offered by the university for its workers. Ms. Kareddy was awarded a Fulbright-Nehru scholarship to join the IHS after graduation as a Research Fellow (2016 Aug 29 To: 2017 Aug 31). Her project qualitatively examines the process of community involvement as engendered by the National Health Mission in a primary health centre area in Telangana. Namely, she studied ASHAs, Village Health and Nutrition Days, and Village Health Sanitation and Nutrition Committees through non-participant field observations, semi-structured key-informant interviews, and documentary data. Before returning to the U.S., she presented her work to Telangana administrators and researchers, and is currently compiling a report on the results of her study.

G.Sravanthi, Intern in Healthcare Software Development:

Ms. G.Sravanthi is a Bachelor of Technology (B.Tech) in Computer Science & Engineering from Sarada Institute of Technology & Sciences (SITS) Khammam, affiliated to the JNTUH. She was Program Analyst Trainee at E-Data Global Services, Hyderabad, Dec 2016-Feb 2017. She did a course on .NET Framework (Asp, Ado) at Naresh Technologies, Hyderabad during 2017 March-July. She is familiar with programming languages like C, C#, and HTML. Presently she is an Intern in Healthcare Software Development at IHS, focusing on Epi Info.

A. Vijayendra Mohan, Intern in Back Office Management & Program Implementation:

Sri Vijayendra graduated in Microbiology, Zoology and Chemistry (BSc MbZC) from New Science Degree College, Hanamkonda, affiliated to the Kakatiya University, in 2011. In 2015, he completed his Masters Degree in English from the University College, affiliated to Telangana University. He worked for sometime as a Computer Operator in BPL. His internship on Back Office Management and Program Implementation, at IHS started from 13th July, 2017.

Pooja Sunar, Intern in Biology Lab Technique:

She is holding a B.Sc. Degree in Biotechnology, Microbiology and Chemistry. She is a member of National Red Cross and participated in many activities by the Society for Training Awareness Recruitment & Social Service (STAR). As a head of Bio Club, she won medals for Shadow Act on DNA Replication of Virus and Song on Microorganisms. She was a volunteer at 11th International Biodiversity Conference 2012 held at Nehru Zoological Park, Hyderabad through National Service Scheme (NSS). Seminar presentation on Plant Diseases and Bt

Cotton at International Crop Research Institute for Semi Arid Tropics (ICRISAT), Patancheru. Stood first in work shop on Gene Cloning at Indigenous Biotechnologies. Took training as a Medical Lab Technician at L.K.S Diagnostics, Karkhana for six months in the department of Biochemistry, Serology, Pathology, Microbiology and Haematology. Worked as a Lab Technician at Vijaya Healthcare Diagnostics, Malkajgiri for six months and Kadila Healthcare Diagnostics, Chandanagar for a year. She was a speaker at seminar held at Madinaguda by Jayamitra&Co on Lab Equipments and serology. Her Internship in Microbiology Lab Technique at IHS, started in June 2017.

A. Jeevana, Intern in Chemical Lab Technique:

Ms. Jeevana graduated in science (BSc BtZC) from Satavahana University, in 2013. In 2015, she completed Masters in Environmental Science (MSc EnvSc), from Osmania University. As part of the post graduation, she did a project for one month duration on " Assessment of Sewage Treatment Plant" in the Singareni Collieries Company Limited. She worked as a Chemist for water, soil and ambient air testing, in Bhagavathi Ana Labs, from April 2016 to August 2017. Her Internship in Chemical Lab Techniques at IHS, started on 6th Sep 2017.

P. Punyasri, Intern in Biology Lab Technique:

Ms. Punyasri graduated in Microbiology, Genetics & Chemistry (BSc MGC) from MNR Degree College. At college laboratory she learned weighing and preparing media, handling of different equipments like autoclave, hot air oven, incubator, LAF, and water quality test by micro pipetting, and positive tests etc. During graduation studies, she participated in college workshops on handling of lab equipments and chromatographic techniques. Prior to graduation, she worked for sometime in an interior decoration shop helping with estimation of costs. Her Internship in Microbiology Lab Technique at IHS, started on 13th Nov 2017.

A. Lavanya, Intern in Biology Lab Technique:

A. Lavanay graduated in Microbiology, Biochemistry & Chemistry (BSc Life Science) from Rao's Degree College Nellore, affiliated to Vikrama Simhapuri University, Nellore, in 2015. She received a Gold Medal and Pratibha award in B Sc Life Sciences for being University topper in the subject. Her undergraduate project was on "Isolation and degradation of Keratinase and degrading bacteria" at Global Institute of Biotechnology, Hyderabad. She completed her Post Graduation (MSc) in Microbiology in 2017 and was the university topper. She did Medical Coding course at Core2Code Chennai. Her Internship in Microbiology Lab Technique at IHS, started on 15th Nov 2017.

Water Quality Investigation Interns:

Name	Qualifications	Start Date	Practice & Skill Development
P.Narsimha Raju	Intermediate (CEC)	08-02-2017	Field Testing of Residual Chlorine & Water Sample Collection.
K.Parashuram	Intermediate (MPC)	01-07-2017	
Md.Afzaluddin	Intermediate (MPC)	04-07-2017	
K.Srikanth Reddy	Graduate (B.Sc MbZC)	18-07-2017	
D.Ashok Kumar	Graduate (B.Sc BtBC)	24-07-2017	
K. Karthik	Intermediate (MPC) & BCom	05-08-2017	
S. Anil Kumar	Graduate (B.Sc BZC)	11-08-2017	
P. Kishore Kumar	Intermediate (MPC)	23-08-2017	
D.Kishan Naik	Intermediate (BZC)	09-09-2017	
B.Venkateswarlu	Graduate (B.Sc MPC)	03-10-2017	

Annex - 3B

Outgoing Fellows, Interns and Apprentices, in 2016-17 & 2017-18 (Ytd).

Fellows:

Name	Designation	Join date	Leave date	Remarks
2017-18				
Vishnupriya Kareddy	Research Fellow	29/08/2016	31/08/2017	Completion

Water Quality Lab Interns :

Name	Practice & Skill	Join date	Leave date	Remarks
2016-17				
Abdul Moize	Water Quality Investigation	18/10/2015	23/07/2016	Resigned, Family problems
Syed Samee	Water Quality Investigation	08/08/2016	30/10/2016	Discontinued
SMohd.Azaruddin	Water Quality Investigation	24/05/2016	07/11/2016	Resigned, Better career
Abdul Wasay	Water Quality Investigation	21/04/2015	08/11/2016	Resigned, Better career
Mohd Hakeem	Water Quality Investigation	30-11-2016	17-12-2016	No show
Abdul Rub	Water Quality Investigation	03-12-2016	17-12-2016	No show
N. Anusha	Microbiology	03-01-2016	08/02/2017	Resigned, Better career
P. Sekhar	Laboratory Technician	15-02-2016	15-02-2017	Terminated, Unauthorised absence
2017-18				
B.S. Jaswanth Raj	Laboratory Technician	01-05-2017	30-06-2017	Resigned for preparing for competitive exams

General Support Interns:

Name	Designation/Project	Join date	Leave date	Remarks
2017-18				
None				

Apprentices:

Name	Designation	Join date	Leave date	Remarks
2016-17				
None				

Annexure-4

Revenue from IHS Laboratory Services

Year	Source of Revenue				Total
	HMWSSB	EM-ResPj	IM-ResPj	Public	
2006-07	1,280,650	212,521	0	20,575	1,513,746
2007-08	1,263,000	450,000	0	34,465	1,747,465
2008-09	1,178,680	412,670	0	45,913	1,637,263
2009-10	1,519,475	100,800	0	75,375	1,695,650
2010-11	3,057,846	203,500	0	96,325	3,357,671
2011-12	3,966,215	8,400	0	92,700	4,067,315
2012-13	4,832,964	0	0	89,775	4,922,739
2013-14	3,670,530	132,750	0	90,000	3,893,280
2014-15	5,295,762	35,040	0	131,450	5,462,252
2015-16	6,347,591	16,000	0	245,925	6,609,516
2016-17	6,714,309	34,194	159,500	530,905	7,438,908
2017-18 Ytd 30/11/2017	5,428,704	82,250	0	293,809	5,804,763

¹ 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.

Annexure-5

IHS Publications in 2016-17 & 2017 -18 (Ytd)

Reports:

RP 63/2017 Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums of Hyderabad City. A Report for 2014-15

Articles:

National Medical Journal of India (NMJI) Vol 30 No 2. 2017 Primary or specialist medical care: Which is more equitable? A policy brief.
Authors: Prasanta Mahapatra, Sanjeev Upadhyaya, G.Surendra

Working Papers:

Nil

Books:

NIL

Annexure-6

Publications Arising from Work Or People at IHS in 2016-17 & 2017 -18 (Ytd)

A. Publications:

Journal	Title
Nil	

B. Invited Presentations:

Presentation Title	Forum / Event	Author(s)
Better Midwifery and More Midwives For Telangana		Prasanta Mahapatra
Implementation of Sustainable Development Goals (SDGs) in AP and Telangana States from Women's Perspective.	AIWC - FTAPCCI 6th April, 2017, FTAPCCI Bhavan, Hyderabad	Prasanta Mahapatra

C. Articles:

Title	Forum / Event	Author(s)
For quantum leap to deliver primary Medial care	The Hindu, 28th Feb 2016	Meenakshi Datta Ghosh Prasanta Mahapatra
Health Protection Scheme: Still more work needed	The Hindu 15th May 2016	Meenakshi Datta Ghosh
Bring the missing midwives back	The Hindu, Published: May 17, 2016	Prasanta Mahapatra
A Static Health Budget? Move Forward with Institutional Change	Partnership to Fight Chronic Disease (PFCD) News Letter, October 2016	Meenakhi Datta Ghosh

D. Poster Presentations:

Presentation Title	Forum / Event	Author(s)
Nil		

Annex-7

IHS Revenue Trends by sources and by activity

Fin. Yr. ¹	Gross revenue by sources			Gross revenue by activity				
	Domestic	Foreign	Total	Res. & C.	Trg. Ser.	Health Inf.	Public Ser.	Others
1991	0	0	43,905					
1992	0	424,088	424,088					
1993	50,000	380,000	430,000					
1994	275,042	774,568	1,049,610					
1995	445,517	403,604	849,121					
1996	160,186	768,447	928,633					
1997	835,250	103,612	938,862					
1998	305,100	599,266	904,366					
1999	2,066,525	0	2,066,525	1,440,625	665,900	7,500	42,542	134,053
2000	4,249,243	2,720,925	6,970,168	3,834,275	1,237,020	1,318,650	21,569	1,547,087
2001	4,560,092	5,668,363	10,228,455	9,527,906	596,257	0	36,152	68,140
2002	7,162,946	2,451,095	9,614,041	7,029,835	1,556,105	822,950	37,236	167,915
2003	6,718,690	4,784,857	11,503,547	9,389,693	1,043,050	240,000	53,384	39,991
2004	7,329,734	826,363	8,156,097	6,676,243	744,408	90,750	142,190	529,538
2005	4,180,215	470,160	4,650,375	3,872,674	0	0	98,175	679,526
2006	5,319,507	1,845,761	7,165,268	5,555,979	0	0	1,045,095	612,519
2007	6,898,526	1,414,996	8,313,522	7,010,918	0	0	1,164,000	138,604
2008	7,985,882	840,277	8,826,159	7,564,690	0	0	1,174,555	86,914
2009	4,808,436	0	4,808,436	2,647,624	175,000	0	1,515,120	470,692
2010	6,774,122	0	6,774,122	5,054,076	0	0	1,285,368	434,678
2011	4,699,440	0	4,699,440	1,030,706	0	0	2,907,903	760,831
2012	9,408,422	0	9,408,422	5,088,933	0	0	4,077,380	242,109
2013	5,809,751	0	5,809,751	0	0	0	4,922,964	886,787
2014	5,356,163	0	5,356,163	272,700	0	0	3,895,080	1,188,373
2015	6,965,291	0	6,965,291	853,800	0	0	5,462,252	649,239
2016	6,419,805	0	6,419,805	168,000	0	0	5,980,642	271,163
2017	7,590,076	0	7,590,076	432,859	162,000		6,215,371	779,846
2018 ²	13,889,001		13,889,001	3,731,353	70,000	0	8,142,588	1,945,060

¹ 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.

² Figures for current financial year (2017-18) is an estimate based on year to date + anticipated receipts.

³ Res.&C=Research & Consultancy, Trg. Ser.=Training Services, Health Inf.=Health Informatics, Ser.=Services

Date:12/12/2017


G Surendra, Director