

Najmul Hoda

Scientist

Date of Birth – 09th Dec. 1968

Experience – 11 years (as on August 2007)

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SPECIALISATION

Remote Sensing, Digital Image Processing, Geographical Information System, Geology, Hydrogeology

EDUCATIONAL QUALIFICATIONS

- M. Sc. (Geology) from AMU, Aligarh (1994) securing 74.13% marks
- B. Sc. Honors (Geology) from Tata College, Chaibasa (Ranchi University) (1991) securing 70.87%
- B. Sc. Pass Course (Physics, Mathematics, Geology) from Tata College, Chaibasa (Ranchi University) (1989) securing 60% marks
- High School from Bihar Secondary School Examination Board (1984) securing 66.22% marks

PROFESSIONAL QUALIFICATIONS

- Diploma in Hydrogeology from AMU, Aligarh (1995) securing 72.50% marks
- Diploma in Electronic Data Processing Machine Operation from AMU, Aligarh (1996) securing 84.40% marks

TRAINING/OTHER QUALIFICATIONS

- Training on **DGPS** (Trimble GPS 5700 & 5800), May 16-19, 2005 by TRIMBLE/PARAS.
- Training on **ARC GIS 9**, December 14-18, 2005 by ESRI.
- Training on **ERDAS IMAGINE 8.7**, by LEICA GEOMATICS.
- Training course conducted by Regional Remote Sensing Service Centre (RRSSC), Jodhpur under the aegis of the National Natural Resources Management System (NNRMS), ISRO, Deptt. of Space, Govt. of India,

Bangalore on “Remote Sensing, Image Processing & Geographical Information System (GIS).”

- One-week orientation course for Wasteland Mapping (Phase-V) at RRSSC, Jodhpur
- One-week orientation course for the project entitled “Rajiv Gandhi National Drinking Water Mission” at RRSSC, Jodhpur conducted by National Remote Sensing Agency (NRSA), Hyderabad
- Two weeks training at site of drilling and well pumping test under the supervision of Central Ground Water Board (CGWB), Lucknow during the course P.G. Diploma in Hydrogeology
- Training on “Artificial recharge to ground water” conducted by CGWB, Western Region, Ministry of Water Resources, Govt. of India, Jaipur
- One week training on Enterprise GIS involving Arc IMS and Arc SDE at Department of Information Technology, Govt. of Jharkhand by ESRI India
- Training on “Artificial recharge to ground water” conducted by CGWB, Western Region, Ministry of Water Resources, Govt. of India, Jaipur

COMPUTER EXPOSURE & SPECIALIZATION

Software

- **Operating Systems:** DOS, WINDOWS/WINDOWS NT/Windows XP, UNIX
- **GIS and Mapping:** AutoCAD Map version 2& 4, PC ARC/INFO Version 3.5.2/, ARC GIS 9 (Workstation and Desktop), MapInfo, Arc View,
- **Remote Sensing:** ERDAS IMAGINE 8.4 / 8.7, GEOMATICA 9
- **Other Applications:** Microsoft Office, Corel Draw, Adobe Photoshop, PageMaker, Surfer, Auto CAD

Specialization

- Visual image interpretation for geology, geomorphology, land-use/land cover etc.
- Digital Image Processing using EASI/PACE, ERDAS Imagine software
- Hydro geological Investigation for Ground Water Prospecting using Remote Sensing (RS), Geographic Information System (GIS), Global Positioning System (GPS) and Field Survey.
- GIS application on IBM RS/6000 Work Station and Windows NT based Arc/Info, Arc GIS etc.

ACHIEVEMENTS (Since August 1996 to December 2005)

In Jharkhand Space Applications Center (Since March 2004 to till date)

- Wasteland Updation Project of Ranchi, Lohardaga & Bokaro districts using ERDAS Imagine & ArcGIS
- Desertification Status Mapping of parts of Jharkhand, West Bengal & Orissa sponsored by Ministry of Environment and Forest, Govt. of India, New Delhi under technical guidance of Space Application Centre (SAC), ISRO, Govt. of India, Ahmedabad
- Village Information System (VIS) – Involved in the preparation of different themes like Geology, Geomorphology, Geological Structure, Water Resources Development Plan etc.
- e-Panchayat (Statewide creation of District, Block, Panchayat, Village and Ward level Maps; attachment of relevant data and Development of Customized user based Software
- PMGSY Road Information System
- Preparation of Block wise Ground Water Prospects Map of entire Jharkhand
- Preparation of Site Suitability Analysis Maps, Watershed Maps, Land Use/Land Cover Maps etc. for different Departments/NGOs/Private Companies etc.
- Field survey and report generation for Ramgarh and Gola blocks of Hazaribagh district for Drinking Water Supply Schemes in collaboration with officers of DW & S Department, Govt. of Jharkhand on the topic of **“PROSPECTING OF WATER SOURCES USING GIS, GPS & SATELLITE MAPS IN RAMGARH & GOLA BLOCKS HAZARIBAGH DISTRICT, JHARKHAND.”** – Report submitted to the **Secretary, DW & S Department**, Govt. of Jharkhand
- Field survey and report generation for Chief Minister’s Constituency for Drinking Water Supply Schemes in collaboration with officers of DW & S Department, Govt. of Jharkhand on the topic of **“SCIENTIST SOURCE FINDING USING GIS, GPS & SATELLITE MAPS IN JAGANNATHPUR & NOAMUNDI BLOCKS WEST SINGHBHUM DISTRICT, JHARKHAND.”** – Report submitted to the **Secretary, DW & S Department**, Govt. of Jharkhand

In Other organizations

- Mapping of different themes and their integration for Ground Water Prospects Maps of 44 toposheets area using IRS 1C LISS-III data and

Arc/Info under the project 'Rajiv Gandhi National Drinking Water Mission Project'

- Wasteland Mapping (Phase-V) of Bhojpur, Jahanabad and Nalanda district of Bihar using EASI/PACE (Ver 5.3) and ARC/INFO (Ver 7.0.3) at Regional Remote Sensing Service Centre (RRSSC), Jodhpur.
- Under IMSD (Integrated Mission for Sustainable Development) – Phase II Project, NRSA, Govt. of India
 - i) Aspur, Bichhiwara, Sagwara & Simalwara blocks of Dungarpur district, Rajasthan.
 - ii) Neema ka Thana and Sri Madhopur blocks of Sikar district, Rajasthan.
 - iii) Bhadra, Nohar and Rawatsar blocks of Hanumangarh district, Rajasthan.
 - iv) Bytoo, Pachpadra and Siwana blocks of Barmer district, Rajasthan.
 - v) Bonli, Khandar and Sapotra blocks of Sawai Madhopur district, Rajasthan.
 - vi) Buhana, Khetri and Udaipurwati blocks of Jhunjhunu district, Rajasthan.
 - vii) Pauri Garhwal district, Uttar Pradesh.
- Mapping of Sodicland of Etawah district using IRS IC LISS-III FCC on 1:50,000 scale under "Uttar Pradesh Sodicland Reclamation Project" of Remote sensing Application Centre, U.P., Lucknow.
- Mapping of Sodicland of 50 villages of Etawah and Aligarh district using PAN and LISS-III merged data on 1:12,500 scales under "Uttar Pradesh Sodicland Reclamation Project" of Uttar Pradesh Remote Sensing Application Centre, Lucknow.

In Regional Remote Sensing Service Centre (RRSSC), Jodhpur:

- Wasteland Mapping (Phase-V) of Bhojpur, Jahanabad and Nalanda district of Bihar using EASI/PACE (Ver 5.3) and ARC/INFO (Ver 7.0.3) at Regional Remote Sensing Service Centre (RRSSC), Jodhpur.

In Institute for Sustainable Development Research Studies (ISDRS), Jaipur:

- Interpretation of different themes and their integration for Ground Water Prospects Maps Rajasthan using IRS 1C LISS-III data and

Arc/Info under the project 'Rajiv Gandhi National Drinking Water Project'

- Under IMSD (Integrated Mission for Sustainable Development) – Phase II Project, NRSA, Govt. of India
Preparation of Various Thematic Maps (Geology, Geomorphology, Landuse/Land Cover, etc.) and their Integration for Water Resource and Land Resource Development Action Plan
- Interpretation of sodicland of Etawah district using IRS IC LISS-III FCC on 1:50,000 scale under “Uttar Pradesh Sodicland Reclamation Project” of Remote sensing Application Centre, U.P., Lucknow.
- Interpretation of Sodicland of Etawah and Aligarh district using PAN and LISS-III merged data on 1:12,500 scales under “Uttar Pradesh Sodicland Reclamation Project” of Uttar Pradesh Remote Sensing Application Centre, Lucknow.

In Aquara Lab. Pvt. Ltd., Jaipur:

- Mapping and Digitisation of Land use/Land cover for Regional Environmental Impact Assessment (REIA) Study of Lease Areas of Golcha Group & JK Cements

RESPONSIBILITIES

- Data Base Creation & Management for different on Going Projects
- GIS Data Base management for Jharkhand Chief Minister Information System (JCMIS) as GIS Administrator
- Preparation of Requisition Specific Data Base/Maps for different Departments/District Commissioners/NGOs/Private Companies etc.
- Project Coordination
- Project Execution

OTHER ACTIVITIES

- ☐ Preparation of detailed Survey Report for Ground Water Exploration (Suitable site selections for High Yield Tube Wells for Water Supply Schemes) based on maps of “Rajiv Gandhi National Drinking Water Mission”
- ☐ Field assistance to the Government official for various projects like Ground Water Targeting etc. especially for DW & S Department, Govt. of Jharkhand.

- ☐ Represented the Jharkhand Space Applications Center and the Department of Information Technology, Government of Jharkhand in the BangaloreIT.in 2005, Bangalore, November 2005
- ☐ Represented the Jharkhand Space Applications Center and the Department of Information Technology, Government of Jharkhand in the Udyog Mela, Ranchi, November 2006

PRESENT INVOLVMENT

- ☐ e-Mining (Statewide data base creation for Department of Mines & Geology)
- ☐ National Land Degradation Mapping Project using multi-temporal satellite data
- ☐ Digitisation and Georeferencing of Village Cadastral/Revenue Maps of Jharkhand State.
- ☐ “Survey and Mapping of Surface Features using Very High Resolution Satellite Data - Analysis of three mining coal blocks in Barkagaon and Keredari Blocks of Hazaribagh District, Jharkhand” for NTPC
- ☐ Preparation of Requisition Specific Data Base/Maps for different Departments/District Commissioners/MNCs/NGOs/Private Companies etc.
- ☐ *EYGIPLAD* (Empowering Youth through Geo-Informatics & Participation for Local Area Development)
- ☐ Digital approach eGovernance initiatives for natural resource management, a pilot project for Simdega district, Jharkhand (eGSWARAJ)

REPORTS & PUBLICATION

1. Technical Report of IMSD project for Bonli, Khandar & Sapotra blocks of Sawai Madhopur district, Rajasthan.
2. Technical Report on “Wasteland Mapping (Phase-V) of Bhojpur, Jahanabad and Nalanda district of Bihar.”
3. Technical Report on “*PROSPECTING OF WATER SOURCES USING GIS, GPS & SATELLITE MAPS IN RAMGARH & GOLA BLOCKS OF HAZARIBAGH DISTRICT, JHARKHAND.*” – Report submitted to the Secretary, DW & S Department, Govt. of Jharkhand
4. Technical Report on “*SCIENTIST SOURCE FINDING USING GIS, GPS & SATELLITE MAPS IN JAGANNATHPUR & NOAMUNDI BLOCKS OF WEST*”

SINGHBHUM DISTRICT, JHARKHAND.” – Report submitted to the Secretary, DW & S Department, Govt. of Jharkhand

5. Report on “Wasteland Updation Project of Ranchi, Lohardaga & Bokaro districts.”
6. Technical Report on Geology, Geomorphology, Land Use/Land Cover, Water Resources Action Plan under “Village Information System – Namkum block, Ranchi district, Jharkhand.”
7. Project Completion Report of the project “GIS based Geo-database creation for the Department of Mines and Geology.

FUTURE PROJECTS

- ☐ JharPolGIS - Automation of Control Rooms with Digital Maps using High Resolution Satellite Data.
- ☐ Web enabled Health GIS of Jharkhand.
- ☐ *Jharkhand Paryatan* (Web enabled Tourism Information System of Jharkhand).
- ☐ School GIS – GIS Mapping of Government Schools.
- ☐ Mapping of Wasteland on large scale using IRS LISS-IV data.

(Najmul Hoda)

Correspondence Address

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