

Riddhi Foundation
(Earlier Known as Riddhi Uddalak)
Annual Report for the Year 2012-13

Introduction:

Riddhi Foundation is a Non-Profit Organisation registered under the West Bengal Societies Registration Act, 1961 in the year 2004- 05 and is based at Kolkata. Riddhi Riddhi Foundation has started functioning from its new office at IB 190 Salt Lake from the 1st February 2012.

Riddhi Foundation is an initiative of Riddhi Management Services which is a technology driven company working in mapping and interpretation of GIS database for around 20 years and has national as well as international clients including government and UN agencies. Riddhi Foundation has been functioning as a Non-Profit Organization from the year 2004-05 for application of GIS and other ICT based solutions developed by the Riddhi Management Services in improving governance as well as functioning of private organizations.

The Organization is presently led by Dr. M. N. Roy who has a background in electronics and telecommunication and has held key positions in the government during his career in the Indian Administrative Services spanning more than three decades.

Riddhi Foundation is engaged in improving delivery of public services and enhancing well-being of the citizen through our specialized knowledge in governance, geo-spatial data management and cutting edge technology in the field of information and communication. We also provide customized business solutions to private organizations to help them gain operational efficiency.

Organizational team consists of finest professionals in the field of governance including local governance; management and analysis of socio-economic data for use in government, business and academic research; GIS applications including acquisition and presentation of geo-spatial data in web-enabled map for customized applications; GIS based logistics and distribution related decision making; spatial planning using GIS for local self governments; preparation of land use plan and providing turn-key solutions for various ICT based interventions including application of mobile technology in real time data capturing and management for government and business organizations etc.

The organization has special focus on services related to alleviation of poverty in all its dimension & hunger and development of women & children.

Being a non-profit organization, Riddhi foundation provides all such solutions at a relatively lower

cost and main goal is to ensure complete satisfaction of our clients. Detail of the organization is available at www.riddhifoundation.org

Human Resources:

Riddhi Foundation has a dedicated and motivated team of professionals who run the Organization. In order to achieve the goal and objectives more people were hired and they are working with Organization. People who have worked with Riddhi Foundation during the year 2012-13 on a regular basis are the following:

1. Dr. M.N.Roy, M.Tech, PhD (President)
2. Mr T.K.Majumdar, Retired from Indian Administrative Service (Secretary)
3. Mrs. Moumita Mukherjee, M.A (Economics) (Research Manager)
4. Miss Kamal Kumari Chakraborty, MA (Sociology)(Programme Manager)

Mrs Moumita Mukherjee joined Riddhi Foundation as Research Manager in June'2012. Apart from full time officials, the Organization is supported by some part time Consultants in the field of drinking water & sanitation, poverty alleviation, public health, nutrition, local governance, livelihood development and Information Technology work. Riddhi Foundation has collaboration with Riddhi Management Services Pvt. Limited (RMS), which is an ISO-certified company, incorporated in 1992 in West Bengal under Indian Companies Act 1956. RMS has specialization in the field of Web based application and development of related software and decision support tools which are simple to use. Technology developed by RMS is being widely used and it was the Technical Partner of the Registrar General of India, Ministry of Home Affairs; Government of India for Census GIS India 2001 for developing a web based GIS (in WhizMap™), which encompasses the expansive database of Census of India through WhizMap™ from the State level of India to sub-district level. Riddhi Foundation gets all their ICT related works implemented in collaboration with RMS.

Activities during the Year:

Riddhi Foundation has started a couple of new projects in the field of local governance and delivery of services in the year 2012-13. Projects taken up in last year by the Riddhi Foundation are briefly narrated below.

1. Contribution of Riddhi Foundation in Welfare Activities

Riddhi Foundation has made important contributions in welfare of the people, mostly belonging to the deprived section of the community by improving delivery of services in respect of several programmes being implemented in different parts of the country. Apart from improvement in governance of the projects with applications of ICT and Geoinformatics, Riddhi Foundation has directly contributed in meeting the total cost of several projects. Total financial contribution by Riddhi Foundation from the year 2012-13 in this respect has been Rs 11.45 lakh till September 2013.

These were made for implementation of various projects.

2. Collaboration with other organizations:

Riddhi Foundation, as a policy, maintains a small group of core professionals and takes up assignment in collaboration with other professional organizations. At present, it has collaboration with National Institute of Rural Development (NIRD) as their technology partner for GIS based applications. It has collaboration with Institute of Development Studies, Kolkata, a reputed institute in the field of socio-economic development for taking up research works together and with Business Brio, a Kolkata based organization, which has specialization in economic survey and analysis. Riddhi Foundation has also entered in to collaboration with Ernst & Young to work together in the field of capacity development for the Panchayats.

3. Mapping Access to Health Services, Patharpratima block of Sundarbans-IIHMR Project

The project on Mapping Access to Health Services started in March '12 and completed by September '13. There is serious problem of access, affordability and quality of healthcare services within the Sundarbans regions of West Bengal. The Future Health Systems (FHS) team of the Institute of Health Management & Research (IIHMR), Jaipur was in process of studying the gap in access and utilization of health services in the Sundarbans as a part of a global effort to assess health delivery problems in remote and difficult areas. The research work taken up by the FHS was to study the various aspects of delivery of health services in Patharpratima block of South 24 Parganas, one of the blocks within Sundarbans. Riddhi Foundation had provided Geographic Information System (GIS) based system for carrying out the research project, particularly the spatial and geographic aspects of the access. The system captured location of various health and related facilities along with services provided from those facilities, location of the habitation, existing transport services including water transport and natural barriers to transportation because of presence of large number of rivers and creeks and isolated islands within the Block. The GIS helps to understand the spatial gap in access to healthcare services to help formulation of appropriate policy in reaching healthcare services to the people living in those areas.

Publication of Report on the Research Study at Patharpratima

A Report On "Mapping Health Care Providers In Patharpratima Block, Within The Sundarbans Region of South 24 Parganas district, West Bengal" was prepared and shared by Riddhi Foundation. The findings of the study would help better planning for improvement of health service delivery and increase the health seeking in the Block.

4. GIS based Monitoring & Surveillance of WASH in Maharashtra- UNICEF Project

Well-being of the children has strong association with access to water, sanitation and hygiene (WASH), which makes UNICEF to emphasize improvement in WASH. UNICEF Maharashtra, in consultation with the state government, desired to develop evidence based monitoring system using information and communication technology (ICT) with GIS backbone for improved implementation of WASH in the state. GIS is of much help in visualizing progress of any programme implemented across a wide area. Achievement of any programme in respect of different local governments can be easily visualized in web enabled GIS to help better internalization of the progress by the functionaries of the local government as well as higher level functionaries. Such system is very useful in respect of all programmes which require local action for improvement along with guidance by higher level governments. Riddhi Foundation, being engaged by the UNICEF Maharashtra, has developed a system for monitoring and analysis of various performance parameters related to WASH. The system analyses progress up to Gram Panchayat (GP) level in five selected districts, namely Amaravati, Chandrapur, Latur, Nandurbar and Yavatmal and similar analysis up to block level for the remaining districts. The project started in April'12 and completed by December'13. UNICEF also desired to have policy papers on improving sanitation and water in the rural areas of Maharashtra, particularly the role of improved monitoring is in process of preparation by Riddhi Foundation. The Policy Papers would help the government of Maharashtra to decide on possible strategy for faster improvement of WASH in the state.

5. Development of Web based GIS for Improving Urban Service Delivery- Englishbazar Municipality of Malda district

Englishbazar Municipality within Malda district of West Bengal approached Riddhi Foundation for developing a Municipal GIS for improving interface with the citizen and improving delivery of services. The same was to be done in phases and the first phase comprises of developing a web-enabled base map showing important urban infrastructures and public utilities. The municipality collected the geographic location, using hand held GPS, of several utilities like roads, important offices, schools, markets, water bodies, ward boundaries, garbage vats, dumping ground, clubs, parks and gardens and some other important land marks and utilities. Riddhi Foundation developed a web-enabled base map showing important urban infrastructures and public utilities. Picture and name of all Councilors showing their jurisdictions (ward boundaries) have been ported in the system. The project duration was from May'12 to November'12

6. Monitoring of malnutrition of children in Vaishali district, Bihar (I- CAN for children under 2 years of age)- UNICEF Project

The project started on April'12 and completed by December'12. UNICEF Bihar Project office entered in to a partnership with Riddhi Foundation for designing a web-based Nutrition Surveillance System (NSS) with GIS backbone to capture weight of children enrolled under ICDS in Vaishali district and to analyze the data for assessing status of malnutrition of the children. The NSS helps the ICDS project officials and their supervisors to analyse the weight of children for assessing both performance of the project functionaries and the status of nutrition of the children. The NSS also provides an excellent supervision tool for monitoring performance of field workers engaged in implementing the ICDS. The system is hosted in the server of the ICDS directorate.

Analysis of Nutritional Status of Children of Vaishali district during the period January to March, 2013

In addition, the data available in the website was analysed by Riddhi Foundation for guiding the project officials in making appropriate interventions. Initially the analysis has been made month wise for November, 2012 and December'2012 and sent to UNICEF Bihar. A quarterly analysis was done for the quarter Jan'13-March'13 and another analysis was done April'13-May'13.

7. Combating Malnutrition in Patharpratima Block- Terre des hommes (Tdh) Project

Tdh in partnership with Sundarban Social Development Centre (SSDC) has implemented a project “Combating Malnutrition in children in disaster prone Patharpratima Block of Sundarbans in West Bengal” in 10 Gram Panchayats (GPs) of Patharpratima Block of South 24 Parganas district. Tdh has collaborated with Riddhi Foundation to pilot the use of mobile technology for data collection, monitoring and enhancing communication/counseling skills of the frontline workers; generating maps through GIS technology to locate the distribution of Moderately Acute Malnourished (MAM) and Severely Acute Malnourished (SAM) children and to track all under 5 children on certain specific indicators. GIS mapping is used to generate thematic maps indicating distribution of cases of MAM and SAM children which can be useful for advocacy and to monitor change across time after making appropriate interventions. Nutrition related data of each child is captured using mobile phone on a real time basis and fed in to the system which analyse the data and notify the field workers for follow up measures as per protocol. There are different protocols for the Low Birth Weight (LBW) babies and the SAM & MAM children. Field workers also show mothers video clips on exclusive breast feeding/kangaroo care etc for enhancing capacity at the community level. The system development is completed by June'2013.

8. Tracking of Mother Child Dyad for First 1000 Days of Life –Child In Need Institute (CINI) project

The project duration was August'12-February'13. Addressing issues related to malnutrition is a huge challenge for India as well as many developing countries. It is now clear that most important period of intervention for improving nutrition status of children is from conception till first two years, which works out to be close to 1000 days. Intensive monitoring and tracking the malnourished children along with appropriate interventions and continuous monitoring are the key requirement to tackle malnutrition. The Child In Need Institute, Kolkata is an institution of repute which has pioneered in tackling malnutrition. CINI has launched a few projects in West Bengal for monitoring malnutrition and making appropriate interventions during the first 1000 days of life. CINI desired to track the status of health and nutrition of every child during the first 1000 days of life, the period within the womb till around two years after birth, which includes the condition of mother also from pregnancy till six weeks after delivery. Riddhi Foundation has developed a web-enabled system which captures their health and nutrition parameters and analyse the same to notify health and ICDS functionaries about services which the target group of mothers/children within respective jurisdictions failed to receive for making necessary interventions. **Real time data** acquisition technology has been used in capturing health conditions for analysis and sending '**Alerts**' and '**Alarms**' to the health functionaries for taking prompt actions. The GIS uses base map of the area showing all villages, all facilities for delivery of health & child development services for locating any child/pregnant woman within the target group and making spatial analysis. For knowing health related services & presence of risk factors on a real time basis data is captured using Android based mobile phone, which is loaded with suitable application software and the data is transmitted as voice file to the server. The voice data is transcribed in to the system and analysis of all data captured every day is done during night to notify services due and possibility of existence of any child/mother in distress by sending notification to the health worker and the supervising officers concerned

9. Geoinformatics Based Mapping and Monitoring of Rural Development Programmes with Special Emphasis on MGNREGS –Wayanad District, Kerala State- A Project with NIRD & Govt. of Kerala

The above mentioned project started on March'13 and is still continuing. MGNREGS is an important scheme for alleviation of rural poverty. The scheme provides right to any family willing to work under the scheme to receive work for 100 days within a year. The project involves **development of two independent systems**. (1) The first one is developing a GIS for Grama Panchayath (GP) and Block wise thematic representation of MGNREGS indicators and to make it accessible in the website for analyzing performance of the MGNREGS within every GP and Block. This component requires development of digital maps of all the Blocks and GPs of the district showing revenue village boundaries, developing a web-enabled GIS and using the GIS and the digital maps for presenting achievements on various indicators of the MGNREGS as thematic maps on a spatial platform. Visual presentation on coloured thematic map helps better internalization of relative performances of different implementing units, which helps to take corrective measures for improving performance on each important indicator related to implementation of the scheme.

(2) The second component is technically more challenging in capturing geo-stamped photographs of all the assets and porting those in the GIS so that anyone can identify exact location and nature of assets created and can also view the important attributes of the assets created. This is a completely different system, which uses mobile phone with Android operating system, for capturing picture along with latitude and longitude of the place where the asset is located and the time when the photograph was taken.

Riddhi Foundation has developed a system for monitoring of the scheme up to GP level, capturing photographs and other attributes of all the assets and uploading those in the web-enabled system for everyone to see and validate the claims of the implementing agencies. Capturing of assets is done using android-run mobile phone and the photographs are geo-stamped for knowing exact geographic location of the assets created. The system is being piloted in Wayanad district of Kerala and is set to improve effectiveness and efficiency of implementation of the scheme. This is expected to be replicated in other districts within and outside Kerala in due course.

10. e-Janani (Development of Web enabled GIS including real time data analysis through mobile telephony) for Mandwih block in Tripura- A project with West Tripura Administration

Health and nutrition of the children are strongly correlated. Delivery of various services in managing and improving health and nutrition are done by two independent set up of functionaries, namely the health workers and the ICDS workers. There is need for convergence and coordination among the two set of workers which is not so satisfactory. The district of West Tripura has adopted a life cycle approach to ensure delivery of all services during the entire life cycle and wanted to have perfect convergence of efforts by the health and ICDS workers in the process. This has been attempted by developing a common database related to health and nutrition conditions of mother and child and keeping track of services delivered to them and the approach is being piloted in one tribal Block of the district called Mandwih. A web-enabled system with GIS backbone has been developed for that purpose by Riddhi Foundation. The system captures weight of each child taken by the ICDS workers and also captures reproductive and child healthcare services delivered by the health workers on a real time basis using mobile phone. The health data is received through voice mails, which are transcribed in to the system. The system, known as the e-Janani, analyses the data and notifies all services which are due to be delivered along with names of the mothers/children to the health workers through SMS and also inform what services were not delivered within time to their supervisors for ensuring proper delivery of all services. . This system has been already developed in June'13.

11. Nutrition Surveillance System for Dhalai district, Tripura- A project with Dhalai District Administration

The project period was June'12 to June'13. In order to get better insight in to the nutrition status of children for each AWC and to also get aggregated status for the GP/ADC village, a Nutrition Surveillance System (NSS) with GIS backbone was developed first for the district of Dhalai of

Tripura by Riddhi Foundation at the instance of the district administration. The objective is to improve service delivery related to child development through the ICDS centre. The nutrition surveillance system developed for Dhalai district is a Geographic Information System (GIS) where AWC wise reports are computerised at the project level and the data is uploaded in the website which displays all performance parameters after due analyses of the data by the system and highlighting the failures which require attention. The drudgery of compilation of reports for each sector by the supervisor is totally eliminated and their services are now better utilized for field level supervision. Since all the fields do not change every month the data entry volume is much less than what appears from the size of the monthly reporting format. The system is web-enabled and also tracks the ICDS centres, which default in sending reports on time and it becomes easy to follow up for timely submission of reports by the project office. Pre-defined queries built in to the system help anyone to easily internalize performances of various administrative units, like the project/sector or Panchayats etc. for paying due attention on units and ICDS centres which have poorer performances in comparison to similar other units. The nutrition outcome of children enrolled in the ICDS projects are presented in the forms of tables, charts, thematic maps to help locating pockets of higher incidence of malnutrition for making appropriate interventions. Sector specific performances can also be analysed for fixing accountability of the supervisors. The supervising officer can now monitor things much better and make workers below to be accountable for failures and make appropriate interventions.

12. Nutrition Monitoring System for West Tripura District- A project with West Tripura Administration

The project duration was October'12 to October'13. Success of the NSS Dhalai project encouraged the District Magistrate of West Tripura to approach Riddhi Foundation to develop one NSS for that district, which has been completed. Automatic compilation of the MPR makes reporting faster and more accurate and easy to retrieve for any analysis. Analysis of programme processes and outputs are done by the NSS, which helps the supervising officials in better monitoring of the programme and in providing them a scientific decision support system. The functionaries below are given feedback about failures for specific interventions.

Income and Expenditure Statement:

The income and expenditure statement for the year 2012-13 is placed below.

RIDDHI UDDALAK
 IB-190, Sector-III, Salt Lake City
 Kolkata-700 106

INCOME & EXPENDITURE ACCOUNT FOR THE PERIOD FROM 01.04.2012 TO 31.03.2013

<u>EXPENSES</u>	<u>Rs.</u>	<u>INCOME</u>	<u>Rs.</u>
Repair & Maintenance	31009	Information & Software Service	4550958
Salary	580355	Survey & Map making	30000
Telephone Charges	44003	Bank Interest Received	1591
Insurance	144		
Audit Fees	12000		
Bank Charges	1000		
Books & Periodicals	4858		
Broad Band & Internet Service	11752		
Business Promotion	34688		
Honorarium to Secretary	42000		
Consultancy Charges	2053087		
Donation & Subscription	1000		
Electricity Charges	32496		
Employer's Profession Tax	900		
Filing Fee	1500		
Guest Entertainment	1621		
Interest & Penalty	4823		
Legal Expenses	1634		
Office Rent	258798		
Postage	2744		
Printing, Stationery & Binding	18116		
Professional Fees	840000		
Software Purchase	69716		
Travelling & conveyance	373621		
Miscellaneous expenses	1362		
Depreciation	42020		
Provision for Taxation	32270		
Excess of Income over Expenditure transferred to Balance Sheet	75032		
	4582549		4582549

Auditor's Report
 Subject to my separate report of even date

A.K. BASU & ASSOCIATES
 Chartered Accountant

Kolkata
 The 28th June 2013.

(Signature)
 (A.K. Basu)
 Proprietor

RIDDHI UDDALAK

(Signature)
 President

RIDDHI UDDALAK

(Signature)
 Secretary

