

# ANNUAL REPORT 2016-17

## Corporate Social Responsibility & Sustainable Initiatives



**Bharat Dynamics Limited**

**(A Government of India Undertaking)**



**Submitted by**



**Institute of Public Enterprise, Hyderabad**



## Glimpse of CSR Photos



## Acknowledgement

*We are thankful to the executives of Bharat Dynamics Limited for taking the consultancy services of the Institute of Public Enterprise for preparation of CSR & SD Annual Report for the year 2016-17.*

*We are grateful to Shri V Udaya Bhaskar CMD & Shri Piramanayagam, Director (Finance), Bharat Dynamics Limited for providing us the opportunity to conduct the study. We express sincere thanks to Shri S Narayanan, General Manager (P&A), Shri Bhattu Srinivas, Dy. General Manager (P&A) / (CSR), Dr LVS N Murthy, Manager (P&A), Shri D S N Murthy, Manager (P&A) for their valuable insights on the corporate needs and cooperation in preparation of the report.*

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*We offer our thanks to all other officers and staff of the BDL who were involved in providing us the necessary support and help in the preparation of this report.*

**Dr. Shulagna Sarkar**  
**Assistant Professor, IPE**

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# CHAPTER I

## Introduction

### 1.1 Bharat Dynamics Limited

Bharat Dynamics Limited (BDL), a Government of India Enterprise under the Ministry of Defense was established in Hyderabad in the year 1970 to be a manufacturing base for guided missiles and allied defense equipment. BDL, a Miniratna Category - I Public Sector Enterprise, is amongst a few industries in the world having capabilities to produce state-of-the-art guided weapon systems. The Company is poised to enter new avenues of manufacturing, covering a wide range of weapon systems such as Surface-to-Air Missiles, Air Defense Systems, Heavy Weight Torpedoes, Air-to-Air Missiles etc., making it a world-class defense equipment manufacturer. Presently BDL employing about 3,105 employees in different categories is having three manufacturing units, located: one at Kanchanbagh, Hyderabad, and other unit at Bhanur, Patancheru Mandal, Sangareddy district, Telangana and third at Visakhapatnam, Andhra Pradesh. As a part of the expansion plan, BDL is setting up two more units - one at Amravati District in Maharashtra and another one at Ibrahimpatnam in Telangana state.

The vision and Mission of the company as follows:

**Vision:** To be a world-class enterprise producing international standard quality products for the Defense industry.

**Mission:** To establish itself as a leading manufacturer in the aerospace & underwater weapons industry and emerge as a world class sophisticated, State-of-the-art, global enterprise, providing solutions to the security system needs of the country.

### 1.2 BDL CSR Mission:

BDL through its CSR & Sustainability initiatives:

- Will Contribute towards enhancement of quality of life of the under privileged people in our society by providing necessary infrastructure.
- Will contribute towards eradication of poverty
- Will contribute towards any activity which helps in maintaining ecological balance and improve sustainability

**OBJECTIVES In alignment with Mission of CSR, the following objectives are pursued.**

- Identify & focus on education as a priority and take up suitable interventions for betterment of educational facilities at village level
- Concentrate on health, hygiene and environmental up gradation to make village life clean and hygienic

- Educate and encourage youth to take up self-employment and vocations to make out livelihood
- To provide support and participate in Government efforts in social, economic and environmental development of the less privileged

## **CSR ORGANIZATION STRUCTURE**

A two-tier organization structure, as detailed below, shall steer the CSR initiatives in the company. Board Level CSR & SD Committee: The Board Level CSR and SD Committee shall consist of three or more Directors, out of which one director shall be Independent director

Independent Director: Chairman

Independent Director: Member

Director (Finance): Member

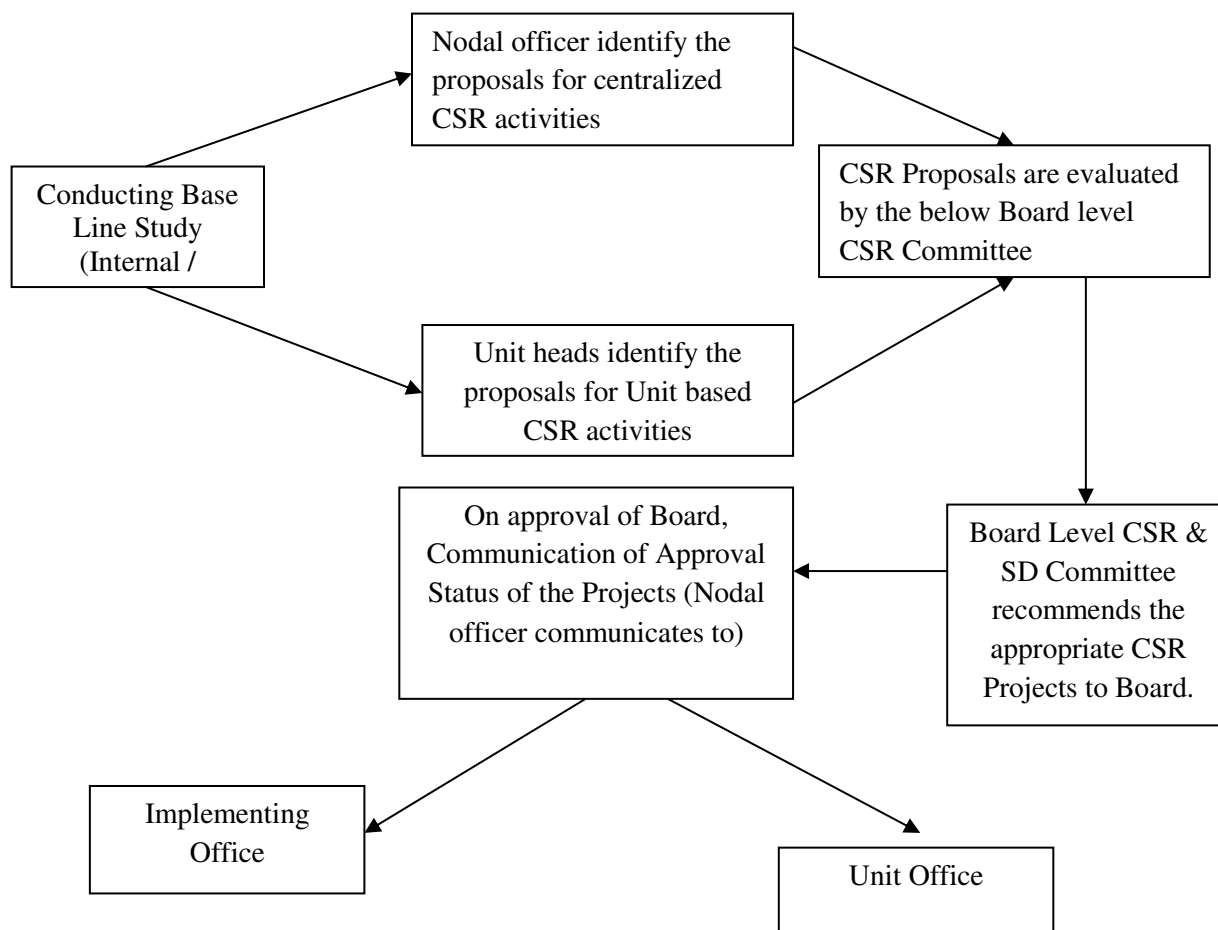
Director (Production): Member

ED (P & A): Member Secretary

## **Below Board Level CSR & SD Committee:**

Executive Director (P&A)	: Chairman
ED (BU)	: Member
GM (V &ER)	: Member
GM (VU)	: Member
AGM (Civil & Infra)	: Member
AGM (CP) BU	: Member
DGM (P&A – CSR)	: Member
DGM (System Audit)	: Member
DGM (Fin.SG-1)	: Member
DGM (Fin.) Corp	: Member
DGM (Fin.) VU	: Member
DGM (Fin.) Bhanur	: Member
Manager (P&A) VU	: Member
Manager (P&A) BU	: Member
Manager (P&A – CSR)	: Member Secretary

## CSR Projects Proposals Identification, Selection and Approval Process at BDL



### CSR & SD Core Areas of BDL:

- Environment Protection
- Infrastructure Development
- Drinking water/ Sanitation
- Healthcare/ Medical facility
- Community Development
- Education
- Skill Development / Empowerment
- Disaster Management
- Arts, culture and sport
- Waste energy management
- Promotion of renewable sources of energy
- Project for re-use and recycle of waste materials
- Rain water harvesting
- Replenishing the ground water supply
- Protection conservation and restoration of eco-system

- Reduction of carbon emission through energy efficient and renewable energy technologies.

BDL supports the 3 UN Global Compact Principles pertaining to the Environment as given below:

- Support a precautionary approach to environmental challenges;
- Undertake initiatives to promote greater environmental responsibility;
- Encourage the development and diffusion of environmentally friendly technologies.

#### **BDL CSR Project based approach:**

BDL will follow a project based accountability approach to stress on the long term sustainability, where its action plan will be distinguished as short-term, middle term and long term qualified as:

Short Term – Less than one year

Medium Term – 1 year to 3years

Long Term- more than 3 years

While identifying long term program, all efforts must be made to the extent possible to define the following:

- Program objectives
- Baseline survey – It would give the basis on which the outcome would be measured.
- Implementation schedules- Timelines Prescribed
- Responsibilities and authorities
- Major results expected and measureable outcome

#### **Performance of BDL FY 2013 to 2017 (Rs. in crores)**

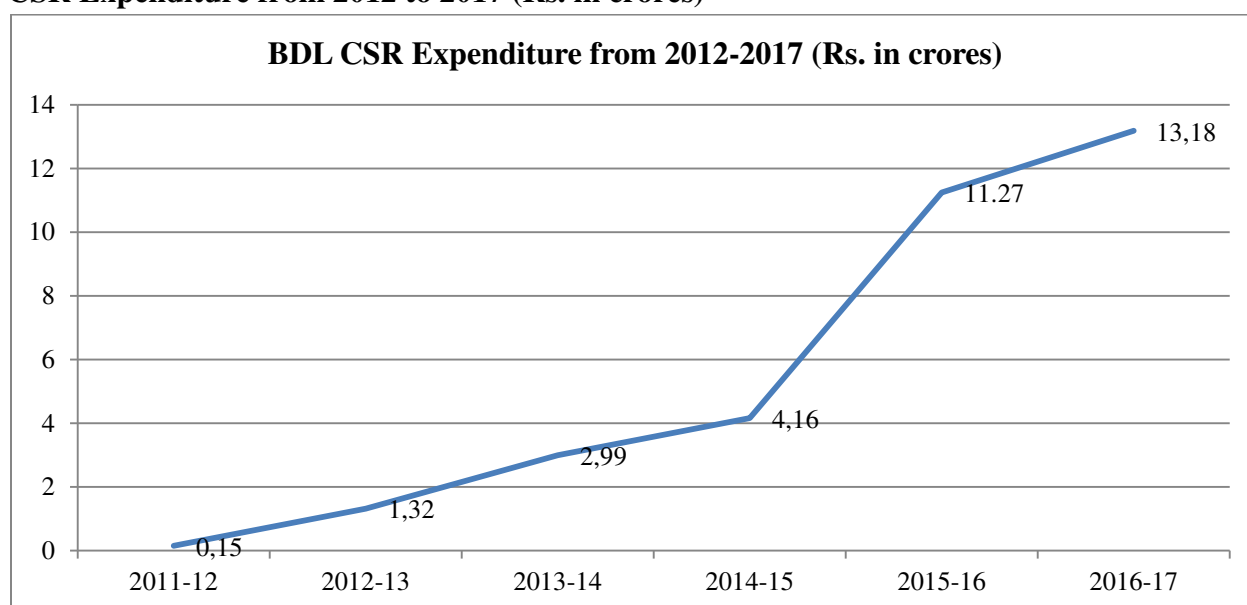
	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
<b>Turnover</b>	1075	1780	2800	4160	4887
<b>Profit Before Tax</b>	419	509	614	847	803
<b>Profit After Tax</b>	288	346	419	565	524



### CSR Expenditure Details from 2016 to 2017(Rs. in crores)

S.NO	YEAR	CSR Target as per the Companies Act 2013 (in Rs Crores)	EXPENDITURE (in Rs Crores)
1	2015 - 16	10.28	11.27
2	2016 - 17	13.15	13.18

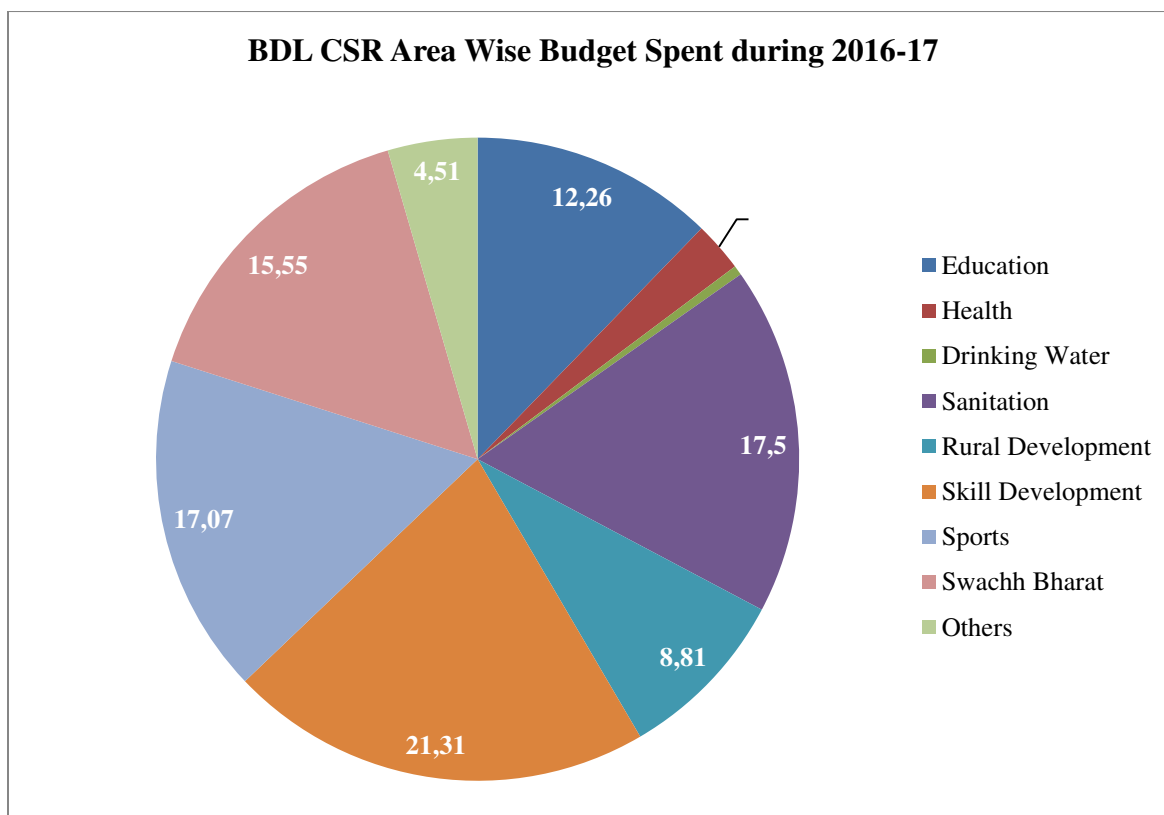
### CSR Expenditure from 2012 to 2017 (Rs. in crores)



### BDL CSR Area Wise Spent Percentage in the FY 2016-17

S.No	Name of the Area	Number of Projects	Total Spent (Rs. in lakhs)	Percentage
1	Education	02	161.64	12.26
2	Health	02	33.06	2.51
3	Drinking Water	01	6.30	0.48
4	Sanitation	05	230.69	17.50
5	Rural Development	03	116.2	8.81
6	Skill Development	04	280.88	21.31
7	Sports	01	225.00	17.07
8	Swachh Bharat	01	205.00	15.55
9	Others (\	02	59.51	4.51

	<b>Total</b>	<b>21</b>	<b>1318.28</b>	100.00
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The above data FY 2016-17 exhibits that BDL has spent maximum CSR funds in the areas of Skill Development, Sports and Swachh Bharat initiative.

**Snapshot of Bharat Dynamics Limited-CSR Project wise spentFY 2016-17 (Rs. in Lakhs)**

SN o	Name of CSR Project	CSR Area	Projects or Programs		Amount outlay (Budget) Project or Program wise	Direct Expenditure on projects or programs with includes overheads	Cumulative expenditure up to the reporting period	Implementi ng Agency Details
			Local area or Other	Location				
1	Mid day Meal Scheme	Education	Local	Sangareddy District, Telangana State and Vishakapatnam District, Andhra Pradesh State	160.50	151.89	151.89	The Akshaya Patra Foundation
2	Healthcare at Nalgonda	Health	Other	Nalgonda District, Telangana State	26.95	16.21	16.21	HelpAge India
3	Healthcare at Visakhapatnam	Health	Local	Visakhapatnam District, Andhra Pradesh State	33.84	16.85	16.85	HelpAge India
4	Safe Drinking Water	Drinking Water Supply	Other	Peepalpahad, Narayanpur and Jangaon villages in Nalgonda District, Telangana State	5.40	6.30	6.30	Naandi Foundation
5	Village Adoption Kyasaram	Rural Development	Local	Kyasaram Village in Sangareddy District, Telangana State	80.00	51.34	51.34	Direct
6	Village Adoption Gondupalem	Rural Development	Local	Gondupalem, Visakhapatnam District, Andhra Pradesh State	80.00	58.42	58.42	Direct
7	School Furniture for Govt. Schools in Nalgonda District	Education	Other	Five Mandals of Nalgonda and Suryapet District of Telangana State	20.00	9.75	9.75	Central Prison, Chenchalgu da, Hyderabad
8	Adoption of it is in Hyderabad & Amravati	Skill Development	Local	Hyderabad Telangana State	350.00	185.24	185.24	Direct
9	Skill Development for unemployed youth	Skill Development	Other	IISc, Chithradurga Campus, Karnataka	100.00	90.00	90.00	IISc., Bengaluru
10	Provision of running water facility for toilets in	Sanitation	Local	Sangareddy, Nalgonda, Rangareddy Districts, Telangana	16.43	16.43	16.43	Telangana Sarva Siksha Abhiyaan

	Govt. Schools of Telangana State			State				
11	Provision of running water facility for toilets in Govt. Schools of A.P State	Sanitation	Local	Visakhapatnam District, Andhra Pradesh	4.20	4.20	4.20	Andhra Pradesh Sarva Siksha Abhiyan
12	Maintenance of School Toilets in Govt. Schools of Telangana	Sanitation	Local	Sangareddy, Nalgonda, Rangareddy Districts, Telangana State	38.52	27.81	27.81	Telangana Sarva Siksha Abhiyaan
13	Maintenance of School Toilets in Govt. Schools of Andhra Pradesh	Sanitation	Local	Visakhapatnam District, Andhra Pradesh	9.00	2.25	2.25	Andhra Pradesh Sarva Siksha Abhiyan
14	Eesagu	Rural Development	Local	Sangareddy District, Telangana State	2015-16 payment due	6.44	6.44	IIIT, Hyderabad
15	ITI Qualified Candidates Skill Development of AMBAJARI	Skill Development	Other	Nagpur, Maharashtra	2015-16 payment due	1.89	1.89	Ordinance Factory, Ambajari
16	CCTVs Installation at Kanchanbagh PS Limits	Others	Local	Hyderabad, Telangana State	20.00	15.00	15.00	Hyderabad Police Department
17	GHMC She "e-Toilets"	Sanitation	Local	Hyderabad, Telangana State	200.00	180.00	180.00	Greater Hyderabad Municipal Corporation
18	NSDF	Sports	Local	Hyderabad, Telangana State	225.00	225.00	225.00	Ministry of Youth Affairs and Sports
19	Swachh Bharat Kosh	Contribution to Swachh Bharat Kosh	Other	Hyderabad, Telangana State	205.00	205.00	205.00	Direct
20	Salaries	Others	Local	Hyderabad, Telangana State	44.51	44.51	44.51	Direct

21	Skill Development Spare Equipment Transportation to ITI	Skill Development	Local	Hyderabad, Telangana State	3.75	3.75	3.75	Direct
	<b>Total</b>					<b>1318.28</b>		

## **Chapter II**

### **Research Methodology**

#### **CONCEPTUAL FRAMEWORK**

Corporate social responsibility (CSR) is one of the most prominent concepts in the literature and, in short, indicates the positive impacts of businesses on their stakeholders. Despite the growing body of literature on this concept, the measurement of CSR is still problematic. Although the literature provides several methods for measuring corporate social activities, almost all of them have some limitations. The purpose of this proposal is to provide a reliable measure of CSR reflecting the responsibilities of a business to various stakeholders.

Companies in India have quite been proactive in taking up CSR initiatives and integrating them in their business processes. The Companies Act, 2013 has made it essential for companies falling into the bracket as defined in the Act should spend as prescribed. BDL is one among other companies which has been complying to the norms of the Sec 135 of Companies Act, 2013.

#### **Impact Assessment/ CSR Audit**

Impact assessment is a continuous process and an important tool for accessing the consequences of possible and actual programmes and presents relevant evidence on the positive and negative effects of the CSR intervention.

CSR evaluation program enables and facilitates organizational change and dramatic performance improvement through use of best practices, customer focus and other external, value-added perspectives.

Impact assessment of CSR projects undertaken by BDL for the year 2016-17 in certain thrust areas is based on issues identified in the Base-line survey reports and proposals submitted by local community and government body.

#### **METHODOLOGY OF THE STUDY AND STEPS FOR CSR IMPACT ASSESSMENT:**

The scope falls within the broader tasks outlined as in Sec135 of Companies Act, 2013

- A representative size of atleast 10% of the beneficiaries has been surveyed.
- Qualitative data has been collected using Focused Group Discussion and Participative Method by engaging various stakeholders of the project.
- Data has also been collected from the beneficiaries by using semi structured questionnaire. The questions are based on the background, development, current conditions, and overall implementation of the project.
- Telephonic discussions have also been conducted with key officials related to the project.



**DATE COLLECTION:****Interaction with stakeholders and company officials:**

<b>Name of the organization</b>	<b>Officials Interacted with</b>	<b>Date</b>	<b>Reason</b>
BDL	Mr. Sai	11 <sup>th</sup> March, 2018	Initial interaction
BDL	Mr. BhattuSrinivas Mr. Krishna (Telephonic Discussions)	11 <sup>th</sup> March, 2018	Initial interaction
BDL	Mr. D.S.N Murthy, BDL, Visakhapatnam	27 <sup>th</sup> March, 2018	About BDL Visakhapatnam CSR activities
Naandi Foundation	Ms. Shivani B Ms. Anusha	11 <sup>th</sup> March, 2018	Understanding operation of Naandi Foundation
HelpAge India	Mr. Raza Mohammed Mr. Stanley Mr. Narendra	11 <sup>th</sup> March, 2018	Understanding operation of HelpAge India
Akshyapatra	Ms.RajiniSinha Mr. Raghavendra	11 <sup>th</sup> March, 2018	Understanding operation of Akshyapatra
CCTV Installation	Mr. Shanker, C.I, Kanchanbagh Mr. Mahesh, S.I, Kanchanbagh	7 <sup>th</sup> April, 2018	Understanding the operation of CCTV cameras.
School Furniture	Mr. K. Arjun Rao, Superident of Prisons and Mr. Veera Swamy, Administrative Officer	10 <sup>th</sup> April, 2018	Understanding the skill development initiatives of inmates in Chanchalguda Central Prison
School Toilets	Mr. Raja Ratnam, Dy. Executive Engineer, O/o State Project Director, SSA, Telangana, Hyderabad	2 <sup>nd</sup> April, 2018	Understanding the operation of school toilets – Telangana State
GHMC She “e-Toilets”	Mr. Srinivas Reddy, Deputy Engineer, GHMC And Mr. Rahul, Asst. Engineer, Eram Scientific Solutions	2 <sup>nd</sup> April, 2018	Understanding the operation of She “e-Toilets”
School Toilets	Mr. K. Nagabhusanam, M.E.O	28 <sup>th</sup> April, 2018	Understanding the operation of school toilets – Visakhapatnam, Andhra Pradesh
Village Adoption programme	Smt. A. Jayamma, Sarpanch, Kysaram village, Patancheru mandal, Telangana	21 <sup>st</sup> March, 2018	Understanding the initiatives and impact of it.

	Shri. V. Srinvas, Sarpanch, Gondupalem village, K.Kotapadu, mandal, Andhra Pradesh	27 <sup>th</sup> March, 2018	Understanding the initiatives and impact of it.
Adoption of ITI old city, Hdyerabad	Smt. S. Renuka, Prinicipal	21 <sup>st</sup> April, 2018	Know the work status of college infrastructural development activities.

### **CSR Survey Work Details with Village Name & Date of Visits**

#### **Village Adoption Programme**

<b>S.No</b>	<b>Village Name</b>	<b>Date of Visit</b>
1	Kysaram	21.3.2018
2	Gondupalem	27.3.2018

#### **BDL MMU Survey Work, Chotuppal MMU, Yadadri District**

<b>S.No</b>	<b>Village Name</b>	<b>Date of Visit</b>
1	PalagatuThanda	15.3.2018
1	VachyaThanda	15.3.2018
3	Gangamulathanda	15.3.2018
4	Kottagudem	15.3.2018

#### **BDL MMU Survey Work, Narsipatnam MMU, Visakhapatnam district**

<b>S.No</b>	<b>Village Name</b>	<b>Date of Visit</b>
1	Ayanna Colony	26.3.2018
2	Pakalapadu	26.3.2018

#### **BDL Mid-Day Meal Survey Work, Hyderabad**

<b>S.No</b>	<b>Village Name</b>	<b>Date of Visit</b>
1	Patancheru	10.4.2018
2	Sulthanpur	10.4.2018
3	Gowthaminagar	10.4.2018
4	Gadiguda	10.4.2018
5	Shanthinagar	10.4.2018
6	Rudraram	10.4.2018
7	Kistareddypeta	10.4.2018
8	Chitkolu	10.4.2018

**BDL School Furniture, Hyderabad & Nalgonda**

S.No	Village Name / City Name	Date of Visit
1	Central Prison, Chanchalguda Jail	7.4.2018
2	Chityal	9.4.2018
3	Narketpally	9.4.2018

**BDL Filter Water Plant Survey Work, Yadadri District**

S.No	Village Name	Date of Visit
1	Narayanpur	23.3.2018
2	Janagam	23.3.2018
3	Peepala Pahad	23.3.2018

**She – e toilets, Hyderabad**

S.No	City Name	Date of Visit
1	Dilsukhnagar	5.4.2018
2	Panama	5.4.2018

**Maintenance of Schools Toilets and Running Water Provision for School Toilets, Telangana and Andhra Pradesh**

S.No	Village Name	Date of Visit
	<b>Andhra Pradesh</b>	
1	Madhuramamidi	28.3.2018
2	Karnikalanka	28.3.2018
3	Buruguveedhi	28.3.2018
4	Agampadu	28.3.2018
5	Ubalagaruvu	28.3.2018
	<b>Telangana</b>	
1	B.J.R Nagar	3.4.2018
2	Malkaram	3.4.2018
3	Arundhathi Nagar	3.4.2018
4	Shanthinagar	7.4.2018
5	Rajeev Gruhakalpa	7.4.2018
6	Ravi Narayan Reddy Colony	7.4.2018
7	Maripally	7.4.2018
8	Sulthanpur	10.4.2018
9	Gowthaminagar	10.4.2018
10	Shanthinagar	10.4.2018
11	Gandiguda	10.4.2018

### CCTV Camera Installation

S.No	City Name	Date of Visit
1	CCTV Camera Installation, Hyderabad	7.4.2018

### Adoption of ITI old city

S.No	City Name	Date of Visit
1	Adoption of ITI old city, Hyderabad	21.4.2018

### Data processing and analysis

- Data cleaning
- Data entry and processing
- Data tables, indicator calculations and stratification / disaggregation of data

### Reporting and feedback

- Preparation of report
- Presentation of the findings

### Tool Used:

FGD's were conducted time to time to reach maximum number of stakeholders. Different sets of questionnaire were used to collect primary data. Different set of questionnaires was used for different set of beneficiaries.

S No.	Project Name	Sets of Questionnaires	Targeted Group
1	Drinking Water Project	03	For Naandi Foundation Officials For Operator For Beneficiary
2	Project on Health Care - Mobile Medicare Unit	03	For HAI Officials For MMU Beneficiary For Doctor
3	Project on Sanitation and Swachh Bharat Abhiyan	03	For department Officials For Toilet Owners For NO Toilet Owners
4	Project on Mid-Day Meal	03	For The Principal For Students For Parents

5	Project on CCTV for safety of citizens	02	For BDL Official For Beneficiary
6	Projects on Skill Development	02	For BDL Official For Beneficiary
7	Projects on Rural development	-	Based on the areas of work.

Each project was rated in the following criteria using a 5 point rating scale.

#### **Team at IPE**

- Dr. Shulagna Sarkar, Assistant Professor, IPE
- Mr. Vaman Reddy, Research Assistant

## **Chapter III**

### **Data Analysis**

#### **AREA I: RURAL DEVELOPMENT**

##### **Project 1: Village Adoption**

##### **Locations:**

- 1) Kysaram, Patancheru Mandal, Sangareddy District, Telangana
- 2) Gondupadu, K.Kotapadu Mandal, Visakhapatnam District

**Budget Spent: Kysaram : 51.34 lakhs and Gondupalem: 58.42 lakhs**

**Status of Work: Completed**

##### **i) Kysaram Village**

Number of Developmental Activities: 4

- Construction of Primary Health Care Centre
- Installation R.O Water Plant
- Construction of Community Centre
- Construction of Household Toilets & School Toilets



##### **Village Geographical Profile:**

Kyasaram village is located in Patancheru Mandal of Sangareddy district in Telangana, India. It is situated 11km away from Mandal Headquarter Patancheru and Sangareddy is District head quarter & nearest town to Kyasaram which is approximately 20km away. The total geographical area of village is 788 hectares. Kyasaram has a total population of 2,752 peoples. There are about 669 houses in Kyasaram village.



**Nearby Villages of Kysaram:** Rameshwar Banda, Indresham, Inole, Bachuguda, Pashamylaram, Nandigaon, Patighanpur, Kardanur, Pocharam, Rendlagadda and Patelguda.

## 2011 Census

Particulars	Total	Male	Female
Total No. of Houses	669	-	-
Population	2,752	1420	1332
Child (0-6 years)	342	179	163
Schedule Caste	699	361	338
Schedule Tribe	10	07	03
Literacy	62.99	74.38%	50.90%
Total Workers	1251	842	409

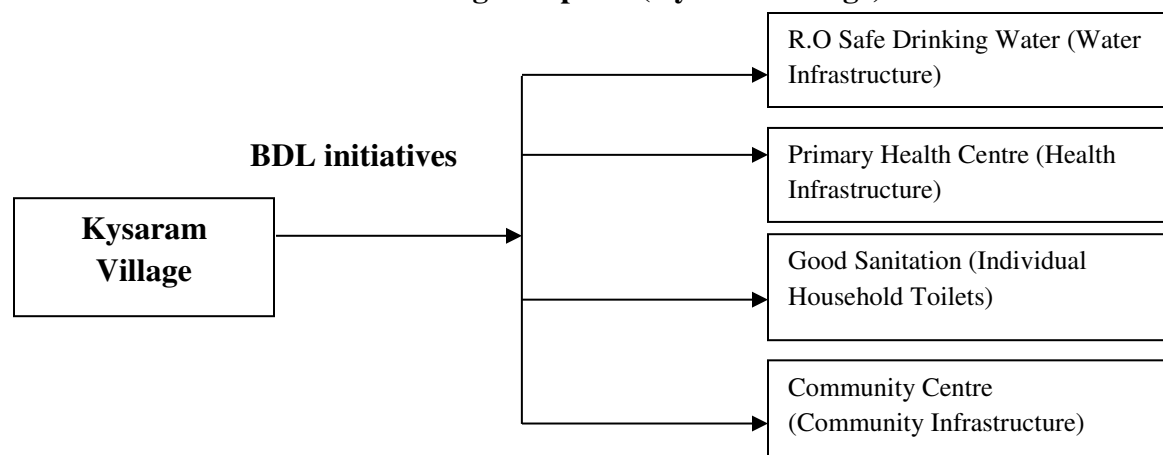
## Present Population & Families of Kysaram Village

Total Population			Number of Households
Male	Female	Total	
1328	1261	2589	517

OC Population			BC Population			SC Population			ST Population			Minority Population		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	total
238	207	445	624	615	1239	305	313	618	13	8	21	148	118	266

**Source: As per Village Anganwadi Survey: 2016-17**

## Activities undertaken under village adoption (Kysaram village)



An interaction was conducted with Smt. Hemalatha, Aanganwadi Worker, Center-I, Kysaram. The information collected has been summarized above. The project has been inaugurated on 10<sup>th</sup> June 2017).

### **Observation& Findings:**

1. It has been observed that the community centre constructed by BDL is in usage. ICRISAT and Asian Paints Ltd. are conducting the embroidery skill development training classes for 30 women in the Community Centre constructed in an area of 1500 square feet approximately.
2. Around 500 households are accessing the R.O Water facility. Four 5000 liter Syntax tanks are being used for water storage and 2 Stainless Steel tanks are being used for storage of filtered water. The Grampanchayat has hired a person to operate the plant. The Grampanchayat is levying a nominal charge of Rs. 5/- for 20 lt tin /can to meet operational expenses of R.O water plant. 4 taps have been installed at each of the plants to draw the R.O water for villagers. The water plant purifies about 2000 liters per hour. Daily water usage of plant is around 2000 to 3000 lts. The plant is operational from morning 7.00 am to 10.00 am and evening 5pm to 8.00 pm
3. BDL has constructed 50 Individual Household Toilets as a part of village adoption program. It is observed that only some households (10-15) do not have toilet facility. Majority of villagers have stopped open defecation and utilizing the toilet facility and are aware of the health benefits associated with it.
4. Health Care activities are yet to be start in the newly constructed Primary Health Care Centre which comprises of 1 hall, 3 rooms and 2 toilets.
5. The villagers have highly appreciated the village adoption and developmental CSR initiatives of BDL.

### **Stakeholders Interactions:**

#### **Interaction -1**

Interview with Smt. A. Jayamma, Sarpanch, Kyasaram:

Date & Time: 21.3.2018 at 12.00 pm

Place: Kyasaram

Smt. A. Jayamma greatly appreciated the BDL CSR projects, which were taken up in the village Kysaram as part of BDL CSR adoption program. She highlighted on the construction of the Primary Health Centre, Community Hall, Individual Household toilets and Installation of R.O Water plant. BDL has spent around 38 lakhs for construction of community center, 10 lakhs for construction of Primary health center, around 15 lakhs for installation of R.O water plant and BDL has also constructed 50 Individual Household Toilets.



**Newly constructed Community hall – Embroidery training initiative for women**

She said that all these developmental activities have benefitted the villagers immensely. Poor people organize their marriages, small functions, community functions etc in the Community hall on a nominal rental basis levied by Grampanchyat. Community center is also used as a Training Center for women for skill development activities like stitching, embroidery etc. Presently ICRISAT & ASIAN paints are conducting embroidery training classes for 30 women as part of skill development program.

Earlier Primary Health Care activities were conducted in the Grampanchayat Office, which were later shifted to school building. It was inconvenient to operate the health care services in the school premises due to lack of support from the school administration. Now, the Health Care Center activities are yet to operate from thenewly constructed health center building, which comprises of a hall, 3 rooms and 2 toilets. This center is convenient for villagers, especially pregnant women and children.



**Shri. V. UdayaBhaskar, CMD Unveiling Plaque at Kysaram Village**

Previously the village faced problems of access to clean drinking water. Villagers would drink Grampanchayat supplied bore well water which was unhealthy for drinking purposes. This resulted in health problems like diarrhea, typhoid, viral fever, cough, cold etc. All these problems

are now under control after installing the R.O Water plant. Earlier, a few of the villagers would purchase R.O water from the Ordinance factory at cost of Rs. 10 per 20 liter can by travelling a distance of 2 km away from the village. Majority of villagers continued to avail the Grampanchayat Drinking water, exposing themselves to deadly water borne diseases. Almost 500 households avail the water facility provided by BDL R.O water plant. Grampanchayat charges a very nominal amount of Rs. 5 for 20 liters, to meet operational expenses of plant. Plant works from morning 7 am to 10 am and in the evening from 5 pm to 8 pm evening. On an average, the water plant supplies around 3000-4000 liters per day. Water usage increases during summer season. The Grampanchayat also appointed one assistant for the maintenance of plant.



Distribution of Drinking Water to Villagers by Shri. V. UdayaBhaskar, CMD

She also stated that BDL has constructed 50 Individual Household Toilets (IHHTs). The Grampanchayat team has identified the beneficiaries, who did not have toilet facility. The selected list was been submitted to BDL for the construction of 50 IHHTs during the year 2016-17.

### **Interaction 2:**

Interview with Smt. Malagalla Shanthamma, BDL Individual Household Toilet Beneficiary

Date & Time: 21-3-2018, 12.45 pm

Place: Kysaram



BDL Individual Household Toilet Beneficiary - Kysaram

Smt. Malagalla Shanthamma, Age 50 years, belongs to Kysaram Village. Smt. Shanthamma & Shri. Samson, husband of Shanthamma lives in small house. On interacting with her, she said that BDL constructed the toilet facility for her family with no cost. Earlier they were unable to afford construction of Individual Household toilet as they have low income, which resulted in the family opting for open defecation 1 km away from their house. As part of BDL CSR village adoption program, she was one of the beneficiaries of BDL Individual Household Toilet Program selected by Grampanchayat. She highly appreciated BDL's commendable initiative of toilet construction. She also mentioned that the quality of material used for construction of toilet is very good and the construction work was finished within 7 days. Presently her entire family is accessing the toilet facility with sufficient water.

### **Interaction 3**

Interview with Shri. Buchigari Sankaraiah, BDL Individual Household Toilet Beneficiary

Date & Time: 21-3-2018, 1.00 pm

Place: Kysaram

Shri. Buchigari Sankaraiah, Age 60 years, belongs to Kysaram village with 6 family members. He said that BDL constructed the toilet facility for his family with no cost. The entire family preferred open defecation before the toilet facility was provided. The main occupation of the family is agriculture and the income levels are low thus, they were unable to construct the toilet. Grampanchayat conducted door to door survey and identified the households which did not have toilet facility, as part of BDL Individual Household Toilet Programme. Sankariah family was one of the beneficiaries and BDL constructed the toilet for his family within 10 days. He expressed gratitude to BDL for their kind effort.

#### **Interaction 4**

Interview with Smt. M. Uma, Village Organizations Assistant

Date & Time: 21-3-2018, 12.30 pm

Place: Kysaram

Smt. M. Uma, Village Organizations Asst. In-charge (Dwakra Groups) said that BDL constructed the community hall for villagers 1 year ago and inauguration of Community hall ceremony was held 6 months ago. Presently she is organizing embroidery classes for local women groups in association with ICRISAT & Asian Paints. Earlier it was difficult to conduct skill development training classes for women in the village due to non-availability of infrastructure. Now she plans to organize stitching training classes for a group of 30 women in future. Presently 30 women are availing the embroidery training opportunity.

She also shared that BDL constructed the primary health center in the village. Earlier they did not have permanent primary healthcare center and the Healthcare activities were being conducted in Grampanchayat building and School building. Around 50 Pregnant women, children (0-5) visit the health centre for regular health checkups, immunization, availing nutrition supplements etc. Around 30 villagers on an average visit the health care center for day to day consultations, which would be available only once in 15 days. The school provided only one room for the Health Care center and it was insufficient especially for pregnant women & children as they did not have separate rooms for examination and consultation. All these issues were solved after BDL's has undertaken construction of HealthCare Centre.



Inauguration of Primary Health Center by Shri Piramanayagam, Director (Finance), BDL



### **Interaction 5**

Smt. Sangita, ANM, Primary Health Sub Centre –Kysaram

Interview over phone at 1.30 pm on 21.3.2017

Smt. Sangita, ANM (Auxiliary Nurse Midwifery) has been working as an ANM for last 10 years in the village. She said that Primary health center was constructed by BDL during 2016-17 as part of BDL CSR village adoption program. Prior to which the Primary health care activities were conducted in school building once in 15 days. Around 35 pregnant women, 20 children and 50 villagers used to visit the health care center. It is very difficult to conduct multiple healthcare activities simultaneously in a small room. There is no waiting hall for pregnant women, children and elderly people. Presently, the Health Care Centre is yet to be shifted to the newly constructed Primary Health Care Center. She highlighted small issues of power supply and storage facilities for medicines and equipment, which she was sure that these problems will be solved by grampanchayat and BDL very soon. The facilities and the spacious building provided by BDL would help immensely in smooth operation of the health care activities in the village.

### **Interaction 6**

Interview with Shri. Yadaiah, Grampanchayat 3<sup>rd</sup> ward member

Date & Time: 21-3-2018, 2.00 pm

Place: Kysaram

Shri. Yadaiah, Grampanchayat 3<sup>rd</sup> ward member highly appreciated the initiatives taken by BDL CSR village adoption program in Kysaram. He spoke with great gratitude about the community hall, Primary Health Care Center, 50 Individual Household Toilets and Installation of R.O water plant as part of BDL CSR village adoption program. He also mentioned that, basically Kysaram village is remote and backward area and the Grampanchayat income levels are too low to spare adequate funds for developmental activities. Earlier the villagers did not have R.O water facility, primary health centre, community building, C.C Roads, drainages, street lights etc. Grampanchayat and village elders notified the issues to MPDO, Patancheru and with the MPDO support, Sarpanch & Village elders requested BDL officials to take up village developmental activities under their CSR program. Finally BDL considered village request, allocated CSR funds and successfully completed village adoption program during 2016-17.

He further mentioned that, ICRISAT & Asian Paints are conducting Embroidery training program for women groups in the Community Centre and the villagers are accessing the community hall for various purposes such as marriages, family functions, festivals, meetings etc. The Grampanchayat charges a mere amount of Rs.1000/- for using the community hall for one day so that the operational and maintenance expenses can be met. Villagers are now accessing safe R.O drinking water due to which their health has improved a lot.

There is huge change in village development due to the effort of BDL. He mentioned that development of village would not be possible without the support of BDL it would have been very difficult to develop the village.

**Name of CSR Activity:** Village adoption by Bharat Dynamics Limited

## ii) Gondupalem Village

Number of Developmental Activities: 3

- 1) Installation R.O Water Plant
- 2) Construction of Community Centre
- 3) Construction of 80 Household Toilets & School Toilets

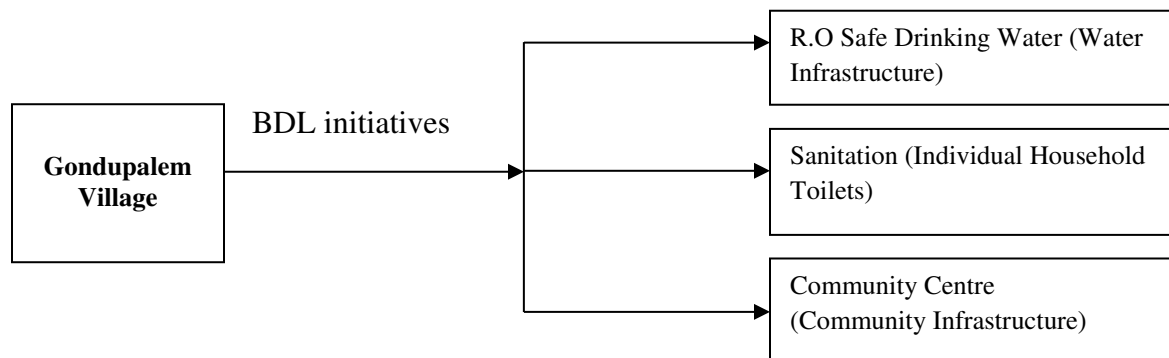


### Geographical Profile:

Gondupalem village is located in Kckotapadu Mandal in Visakhapatnam District of Andhra Pradesh State. It is located 32 KM west from District head-quarters Vishakhapatnam. Gondupalem is 7 KM away from Kintada Kotapadu and the nearby villages are Kintada (2 KM) , Arle (2 KM), Paidampeta ( 3 KM ) , Seemunapalle ( 4 KM ) and Alamanda Bheemavaram (4 KM). Gondupalem is surrounded by Chodavaram Mandal towards west, Sabbavaram Mandal towards South, Devarapalle Mandal towards North, Cheedikada Mandal towards west.

### 2011 Census

Particulars	Total	Male	Female
Total No. of Houses	777	-	-
Population	2,926	1441	1,485
Child (0-6 years)	344	176	168
Schedule Caste	25	16	09
Schedule Tribe	15	09	06
Literacy	53.45%	67.51%	39.94%
Total Workers	1,634	903	731



### Observation& Findings:

1. The Community Center was constructed in an area of 2400 (45X60) square feet approximately, which comprises 1 big hall , 1 bride room, 1 groom room, 1 Pooja (Office) room and 2 toilets. Now the Gram Panchayat is planning to construct compound/boundary wall for the community center as well. Bore well motor is also being installed at the Community Centre. The Community Centre was officially inaugurated by the Director (Technical), BDL on 7<sup>th</sup> November, 2017. It was constructed for serving purposes like marriages, community festivals & functions etc., for the villagers. More than 800 households are expected to benefit from the community center in the village.
2. BDL has constructed aR.O Water plant in the village during the year 2016-17. Two 1000 ltsyntax tanks have been used for raw water storage and one 2000 liter stainless steel tank is being used for the storage of filtered water. The Grampanchayat is levying a nominal charge of Rs. 5/- for 20 liter tin/can to meet the operational expenses of R.O water plant. 4 taps were installed at each of the plants to draw the R.O water for the villagers. The Water plant purifies about 2000 liters per hour. Daily Water usage of plant is around 1000 to 2000 liters. The operational hours of the Plant are from morning 7.00 am to 10.00 am and evening 4pm to 7.30 pm.
3. BDL has constructed 80 Individual Household Toilets as a part of the village adoption program. It is observed that still around 70 households do not have toilet facility as majority of these households do not have sufficient place at their premises for construction of toilets. After the construction of the toilets, majority of the villagers have stopped open defecation and are accessing their individual household toilet facility. They have become aware of the health benefits of maintaining clean surroundings, Swachh Bharat and safe drinking water etc.
4. The villagers have highly appreciated the village adoption and developmental CSR initiatives.



**BDL newly installed an R.O Plant at Gondupalem Village, K.KotapaduManal, Visakhapatnam District, Andhra Pradesh**

### **Stakeholders Interactions:**

#### **Interaction -1**

Interview with Shri. VantakuSrinivas, Sarpanch-Gondupalem Village

Date &Time: 27.3.2018 at 12.00 pm

Place: Gondupalem Village



**BDL Newly Constructed Community Hall at Gondupalem Village**

Shri. V. Srinivas, the Village Sarpanch is highly satisfied with the BDL CSR projects, which were taken up in the village Gondupalem as a part of BDL CSR village adoption program during the year 2016-17. He highlighted the construction of Community Hall, Individual Household toilets and Installation of R.O Water plant. BDL has spent around 37 lakhs for construction of community center, around 27.20 lakhs for construction of 80 Individual Household Toilets, 8 lakhs for installation of R.O water plant, 1.35 lakhs for school running water and 2.35 lakhs for power Transformer in the village. BDL has initiated the developmental activities in the village under the able leadership of MPDO Ms. Purnima Devi, District Collector, Shri.Ramanaidu-Former MLA and other village elders.



**R.O Water Plant Machinery**

He also said that R.O water plant was inaugurated by Shri. V. UdayaBhasker, CMD, BDL on 23<sup>rd</sup> July, 2016. Earlier, the villagers used Grampanchayat Bore well water for drinking, which had high fluoride content which lead to health issues. The Grampanchayat is levying a nominal charge of Rs. 5/- for 20 liter tin /can to meet operational expenses of R.O water plant.

He also stated that 80 Individual Household toilets were constructed by BDL as part of village adoption programme. The Grampanchayat team has identified the beneficiaries, who did not have toilet facility. The selected list was submitted to BDL for the construction of 80 IHHTs during the year 2016-17.

Earlier majority of women of the village waited for the night for defecation. The effort of BDL has led to reduced open defecation as villagers have access to their own IHHTs. However, 70 households still they do not have toilet facility due to non-availability of land at their premises for the construction of toilet. Grampanchayat along with the support of BDL has been trying to solve this problem.

He further mentioned that the multipurpose community hall constructed in the village as part of village adoption program has been very useful for the people to organize events like community festivals, marriages, cultural events, meetings etc. The Grampanchayat levies a nominal amount of Rs. 1000 for using of community hall for one day to meet operational expenses of the community hall. The Community center is not fully operational due to some pending issues like installation of bore well motor and construction of boundary wall, which will be addressed soon.

## Interaction 2

Interview with Smt. BodaVaraLaxmi

BDL Individual Household Toilet Beneficiary

Date & Time: 27.3.2018, 1.00 pm

Place: Gondupalem

Smt. Boda Varalaxmi, Age 42 years, belongs to Gondupalem village, and has a family of 5 members. She said that BDL constructed the toilet facility for her family with no cost. She has been facing a lot of problems due to the practice of open defecation which had led to one of the family member even suffering from a severe injury. It was difficult for the old members of the family to walk a long distance and go for open defecation. The troubled family had then applied for Individual Household Toilet to be constructed in their house to the Grampanchayat. The family otherwise would not have been able to afford the facility due to very humble meaning of earnings. Presently the family is accessing the toilet facility with availability of sufficient water.



BDL Individual Household Toilet Beneficiary Smt. BodaVaralaxmi

## Interview 3

Interview with Smt. Jhansi, Smt. Suramma, Smt. Nuka Ratnam and other Women Folk

BDL Individual Household Toilet Beneficiaries

Date & Time: 27.3.2018, 2.00 pm

Place: Gondupalem

On interacting with Smt. PaidiTallamma, KandepalliLaxmi, K. Naga Santhosi, Smt. Jhani, Smt. Suramma, Smt. Nuka Ratnam and other women in village we got to know that, earlier their families were unable to afford the construction of Individual Household toilet as their income levels are very low, which resulted in the families opting for open defecation 1 km away from their houses. The majority of womenfolk of the village waited till night to go for defecation. The defecation area was also full of bushes, stones, snakes, scorpions etc, and was dangerous especially in the night. Smt. Naga Santhosini one of the beneficiaries who convinced her family



to immediately apply for Individual Household Toilet in Grampanchayat., which was accepted and their family was selected for the BDL Individual House Hold Toilet Construction program.

#### Interview 4

Interview with Shri. Abaddam,

R.O Water Plant Operator

Date & Time: 27.3.2018, 3.00 pm

Place: Gondupalem

Shri. Abaddam has been working as R.O water plant operator since inception of the R.O water plant in the village. Before installing of R.O plant, villagers used Grampanchayat Bore well water and they faced many health problems like fever, cough, cold, typhoid and other water borne diseases. Now all these health problems are under control after installing R.O water plant. He cleans the filters once in two days and changes the filters once in 30 days. He operates the R.O water plant two hours on alternate days. The Water plant purifies about 2000 liters per hour. The R.O water is tested once in month to ensure that the portability and quality parameters are met.

He also said that Grampanchayat is also conducting awareness programs on Safe drinking water & educating villagers for using safe drinking water. Around 10-15 villagers from Neighborhood village R.Npalem are also drawing the R.O water from Plant. Around 300 liters of R.O water is being used by Primary school, Secondary School, Anganwadi Centers and Temples every day free of cost. He expressed his sincere gratitude to BDL for their kind effort.

#### Satisfaction

S.No	Parameter	Stakeholders Satisfaction levels			
		Village Sarpanch	Grampanchayat Ward Members & Village Elders	Villagers	ANM, VOA, Anganwadi Workers & Health Staff
a) Installation of R.O Water Plant					
1	Increase in access to safe drinkingwater (RO Water) facility (24X7)	Yes	Yes	Yes	Yes
2	Increase in safe drinking waterconsumption	Yes	Yes	Yes	Yes
3	Increase in community ownership of the initiative and support in creating awareness on health	Yes	Yes	Yes	Yes

	benefits				
4	Reduction in water borne diseases like Typhoid, Cholera, Dysentery, Malaria and etc.	Yes	Yes	Yes	Yes
<b>b) Construction of Individual Household Toilets</b>					
1	Improved Sanitation facilities	Yes	Yes	Yes	Yes
2	Improved health & hygiene	Yes	Yes	Yes	Yes
3	Decrease in open defecation	Yes	Yes	Yes	Yes
4	Increase in awareness of clean drinking water, sanitation and hygiene	Yes	Yes	Yes	Yes
<b>c) Community Centre</b>					
1	Increase of Community participation in Village development	Yes	Yes	Yes	Yes
2	Increase in the Organizing of various festivals, events, Celebrations etc.	Yes	Yes	Yes	Yes
3	Increase in various skill development activities in Community center	Yes	Yes	Yes	Yes
4	Improved relationships in the society	Yes	Yes	Yes	Yes
<b>d) Primary Health Centre</b>					
1	Improved health Infrastructure	Yes	Yes	Yes	Yes
2	Improved health center performance	Yes	Yes	Yes	Yes
3	Increase in accessibility of health care services	Yes	Yes	Yes	Yes
4	Increase in organizing various health awareness programs / events etc.	Yes	Yes	Yes	Yes
	<b>Overall rating of four activities</b>	<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>

## AREA II – HEALTHCARE

### **Project 1: Healthcare facilities through HelpAgeIndia for senior citizens**

#### **Locations:**

- 1) Chotuppal, Yadadri District, Telangana
- 2) Narsipatnam, Visakhapatnam District, Andhra Pradesh

**Budget Spent:** Chotuppal MMU: 16.21 lakhs and Narsipatnam MMU: 16.85 lakhs

**Current Status:** Ongoing Project

#### **Introduction:**

In a country where more than 90% elders have to work in order to survive, affording quality medical care is a far dream. People are living longer, the Oldest Old, those 80 plus, are estimated to reach 48 million by 2050. 88% of the Oldest Old (80+) suffer from chronic ailments such as hypertension, asthma, arthritis, heart problems etc. HelpAge's Mobile Healthcare program seeks to provide sustainable healthcare solutions to destitute elders and their community where these are not available through its Mobile Healthcare Units (MHUs). Each MHU has a doctor, pharmacist and a social worker. These MHUs go into the interiors of urban slums and villages, bringing healthcare virtually at the doorsteps of these destitute elders. For most elders it saves them from the long lines at hospitals which are also situated far from their communities and they get free medication on a monthly basis. Their Individual patient card keeps a record of their treatment and helps monitor their progress.

These MHUs often conduct specialized health camps on various diseases and free health check-ups are conducted. The MHUs have also become awareness generating sites, with the social worker empowering the disadvantaged elderly with information on various diseases, along with educating them on the various preventive measures that can be taken to prevent the onset of any deadly disease. HelpAge's MHU service has been recognized as Asia's largest mobile healthcare network for elders. Currently, 144 MHUs are servicing 1920 community locations, spread over 24 states and have already provided 23.25 lakh treatments.

#### **About HelpAge India:**

HelpAge India is a leading charity in India working with and for disadvantaged elderly for nearly 4 decades. It was set up in 1978 and is registered under the Societies' Registration Act of 1860. There are an estimated 104 million elderly in India. HelpAge advocates for their needs such as for Universal Pension, quality healthcare, action against Elder Abuse and many more at a national, state and societal level with Central and State governments. It advocates for elder friendly policies and their implementation thereof. It works hand-in-hand with Senior Citizens Associations understanding elder needs working with and for them.

The aim is to serve elder needs in a holistic manner, enabling them to live active, dignified and healthier lives.

HelpAge's focus over the years has moved from Welfare to Development. It provides elderly relief through various age care interventions such as – it runs one of the largest mobile healthcare programs through its Mobile Healthcare Units spanning the country providing free healthcare services to destitute elders, it helps elders earn their livelihood through the formation of Elder-Self-Help Groups making self-reliant, it conducts cataract surgeries to restore their sight, looks after their basic needs through its Support-a-Gran program, runs Elder Helplines across the country, provides relief & rehabilitation for elders post disasters and provides active-ageing opportunities.

### **BDL-Helpage India MMU – Governance Statement**

- A MoU was signed between BDL & Helpage India on 5.7.2016. This MoU is valid for the financial years from 2016-17 to 2018-19 (MMU-Chotuppal)
- A MoU was signed between BDL & Helpage India on 3.12.2015. This MoU is valid for the 3 years from 1.1.2016 to 31.12.2018 (MMU-Narsipatnam)

### **Working Mechanism:**

Mobile Medicare Units provide free healthcare, medical treatment, medications and other health care services to senior citizens in slums and rural areas providing access to health care services to improve quality of life of impoverished elderly living in poverty.

Each MMU travels with a qualified doctor, pharmacist and social worker and is able to make referrals to local hospitals for other services if required. The "Mobile Medicare Unit" program also provides home visits to bed ridden elders, conducts physiotherapy, yoga, meditation classes, shelter assistance, disability aids, counseling and help for senior citizens to access their old age pension benefit. The "Mobile Medicare Unit" program helps elderly to maintain and improve their health and well-being.

Regular feedback from the beneficiaries is taken by the Social Protection Officer. Help Age India maintains the case sheets and other record of the beneficiaries which includes beneficiary reports, medicine consumption reports, economic background of each beneficiary and the monthly review reports. The entire data is also maintained by HelpAge India on E-Chikitsa Software

### **Common Diseases addressed:**

Allergy	Abdominal Pain	Asthma
Constipation	Cataract	Cough and cold
Chronic obstructive Disease	Diabetes Mellitus	Disability
Hypertension	Hypothyroid	Osteoarthritis
Osteoporosis	Joint pain	Urinary Tract Infection

### Cases Referred to other Hospitals:

Varicose veins	ENT	CVA
Neuropathy	Renal calculi	Dermatology

### Enrolment Criteria for Patients:

- Patients should be 55 years and above.
- They should belong to the category of below poverty line citizens.
- Patients suffering from health issues as mentioned above.

### List of Medicines being used by MMU during 2016-17

<ul style="list-style-type: none"> <li>• Albendazole (400 Mg)</li> <li>• Amlodipine Besylate Atenol (5+50 Mg)</li> <li>• Amlodipine (2.5 And 5 Mg)</li> <li>• Amoxicillin And Clavulanate Potassium (625 Mg)</li> <li>• Amoxycillin (250 And 500 Mg)</li> <li>• Andre (10 MI)</li> <li>• Aspirin (75 Mg)</li> <li>• Atrovastatin (10mg)</li> <li>• Azithromycin (500mg)</li> <li>• Benzyl Benzoate 25 % (100 MI)</li> <li>• Betamethasone 0.05% (20 Mg)</li> <li>• Betamethasone 0.10% (20mg)</li> <li>• Bisacodyl (5 Mg)</li> <li>• Budesonide (100 Mcg)</li> <li>• Calcium Elemental (500mg) + Vitamin D3 (250mg)</li> <li>• Carbimazole (10mg)</li> <li>• Cefixime (200 Mg)</li> <li>• Cetirizine (10mg)</li> <li>• Chloramphenicol Aplicaps (1%)</li> <li>• Chloroquine Phosphate (250 Mg)</li> <li>• Cinnerazine (25 Mg)</li> <li>• Ciprofloxacin (500 Mg)</li> <li>• Ciprofloxacin Eye / Ear Drops (0.03% - 5 MI)</li> <li>• Clotrimazole Ointment (1% -15 MI)</li> <li>• Cough Syrup (Pediatric) – 60ml</li> <li>• Deriphylline Retard (150 And 300mg)</li> </ul>	<ul style="list-style-type: none"> <li>• Hydrochlorthiazide (25 Mg)</li> <li>• Ibuprofen (400 Mg)</li> <li>• Iron + Folic Acid + Cyanocobalamin</li> <li>• Isapghula Husk (100 Mg)</li> <li>• Isorbide 5 Mononitrate (20 Mg)</li> <li>• Isosorbide Dinitrate (10 Mg)</li> <li>• Ldopa-Carbidopa (100 Mg)</li> <li>• Levofloxacin (500 Mg)</li> <li>• Liniment Of Turpentine (100 MI)</li> <li>• Liquid Paraffin + Milkof Magnesia (170 MI)</li> <li>• Losartan (25 And 50 Mg)</li> <li>• Losartin+Hydrocholarthiaride</li> <li>• Metformin (500 Mg)</li> <li>• Metformin Sr (500 Mg)</li> <li>• Metoprolol (50 Mg)</li> <li>• Metronidazole (200 Mg)</li> <li>• Neosporin (5mg)</li> <li>• Nitrofurantion (100 Mg)</li> <li>• Ondansetron (8 Mg)</li> <li>• Ors (21, 8 Mg)</li> <li>• Oxymetazoline Nasal Drops</li> <li>• Pantaprazole (40 Mg)</li> <li>• Paracetamol (500 Mg)</li> <li>• Paracetamol Suspension (Pediatric)</li> </ul>
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<ul style="list-style-type: none"> <li>• Diazepam (2 Mg)</li> <li>• Diclofenac Gel (30 Mg)</li> <li>• Dicyclomine + Paracetamol</li> <li>• Diethylcarbamazine Citrate (100 Mg)</li> <li>• Digoxin (0.25 Mg)</li> <li>• Domperidone (10 Mg)</li> <li>• Dried Aluminium Hydroxide Gel 250 Mg+ Magnesium Hydroxide+Activated Dimethicone 50 Mg (Antacid)</li> <li>• Enalapril (5 Mg)</li> <li>• Etoricoxib (60 Mg)</li> <li>• Flurbiprofen Eye Drops (0.03% - 5ml)</li> <li>• Frusemide (40 Mg)</li> <li>• Glimiperide ( 1and 2 Mg)</li> <li>• Glimiperide 1 Mg+ Meltformin 500 Mg Sr</li> <li>• Glipizide (5 Mg)</li> </ul>	<ul style="list-style-type: none"> <li>• Phenytoin (100 Mg)</li> <li>• Povidone Iodine (5%)</li> <li>• Prednisolone (5 And 10 Mg)</li> <li>• Primaquine (15 Mg)</li> <li>• Prochlorperazine Maleate (5 Mg)</li> <li>• Rabeprazole Sodium (20mg)</li> <li>• Ranitidine (150 Mg)</li> <li>• Risperidone (1 Mg)</li> <li>• Salbutamol (100 Mg)</li> <li>• Sertraline (50 Mg)</li> <li>• Silver Sulfadiazine + Chlorhexidine (1 % - 15 Mg)</li> <li>• Thyroxine (25, 50 And 100 Mcg)</li> <li>• Tinidazole (500 Mg)</li> <li>• Unienzyme</li> <li>• Vitamin B Complex</li> <li>• Vitamin B Complex + C</li> <li>• Vitamin C (500 Mg)</li> </ul>
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#### **Coverage by BDL MMU Project:**

The MMU covers 23 villages in Nalgonda district of Telangana and 12 villages in Visakhapatnam district of Andhra Pradesh. The schedules of the MMU Teams are mentioned in the following tables. The Schedule is made in such a way that 2-5 nearby villages are covered in a day.

#### **Beneficiary Status under MMU For the year 2016-17**

HelpAge India has covered 35 villages under Mobile Medicare Unit where in 4000 beneficiaries had been extended medical care for the year 2016-17.

#### **Helpage India employees associated with Each MMU:**

- Social Protection Officer-1
- Medical Doctor-1
- Pharmacist-1
- Driver-1

### **Project Implementation Committee Members:**

At HelpAge India:

- Shri. Kaladhar - Social Protection Officer (Choutuppal MMU- Nalgonda)
- Shri. Kiran Babu - Social Protection Officer (Narsipatnam MMU- Vizag)
- Shri. Stanley Oguri- Project Coordinator
- Shri. Mohd. Raza Mohammed - Acting State Head - TS.
- Shri. Mrinal Srikanth Lankapalli - Manager - AP.

## Profile Chotuppal MMU Coverage Sites of Grampanchayat Profiles as per Census 2011

### i) Population

S.No	Name of Grampanchayat	Total Households	Population			SC Population				ST Population			
			Total Population	Male	Female	Total SC Population	Male	Female	Percentage	Total ST Population	Male	Female	Percentage
Narayanpur Mandal													
1	Narayanpur	1820	7927	3832	4095	1077	492	585	13.59	503	171	332	6.35
2	Janagam	1415	5663	2911	2752	1081	534	547	19.09	2321	1226	1095	40.99
3	Mohammadabad	288	1173	614	559	171	96	75	14.58	536	285	251	45.69
4	Rachakonda	344	1300	682	618	70	35	35	5.38	1182	621	561	90.92
5	Sarvali	1957	8084	4433	3651	1970	1044	926	24.37	143	96	47	1.77
6	Kottagudem	328	1199	605	594	196	99	97	16.35	0	0	0	0
Chotuppal Mandal													
1	Allapur	147	687	343	344	137	71	66	19.94	0	0	0	0
2	Peepal Pahad	678	2789	1413	1376	448	212	236	16.06	639	328	311	22.91
3	D. Nagaram	1541	6321	3253	3068	821	425	396	12.99	23	11	12	0.36
4	Lakkaram	954	3945	2024	1921	674	339	335	17.08	51	23	28	1.29

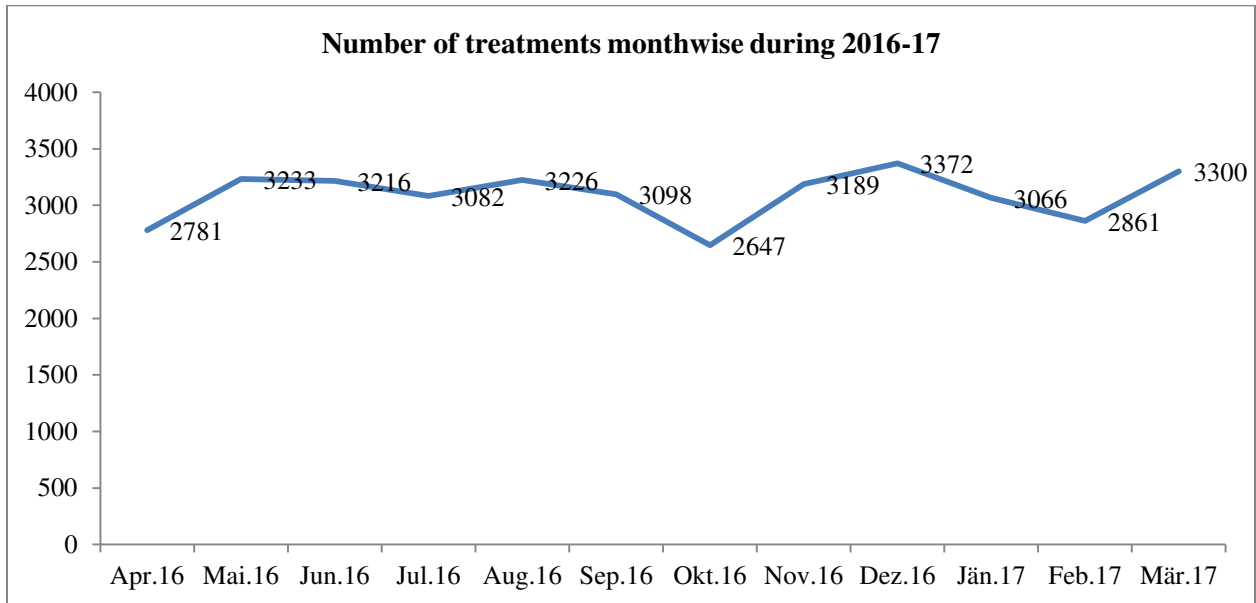
### ii) Work Profile

S.No	Name of Grampanchayat	Total Workers	Main Workers	Marginal Workers
<b>Narayanpur Mandal</b>				
1	Narayanpur	3544	3175	369
2	Janagam	2761	2320	441
3	Mohammadabad	561	492	69
4	Rachakonda	769	191	578
5	Sarvali	4254	2292	1962
6	Kothagudem	655	578	77
<b>Chotuppal Mandal</b>				
1	Allapur	370	365	5
2	Peepal Pahad	1421	1067	354
3	D. Nagaram	2986	2870	116
4	Lakkaram	1799	1713	86

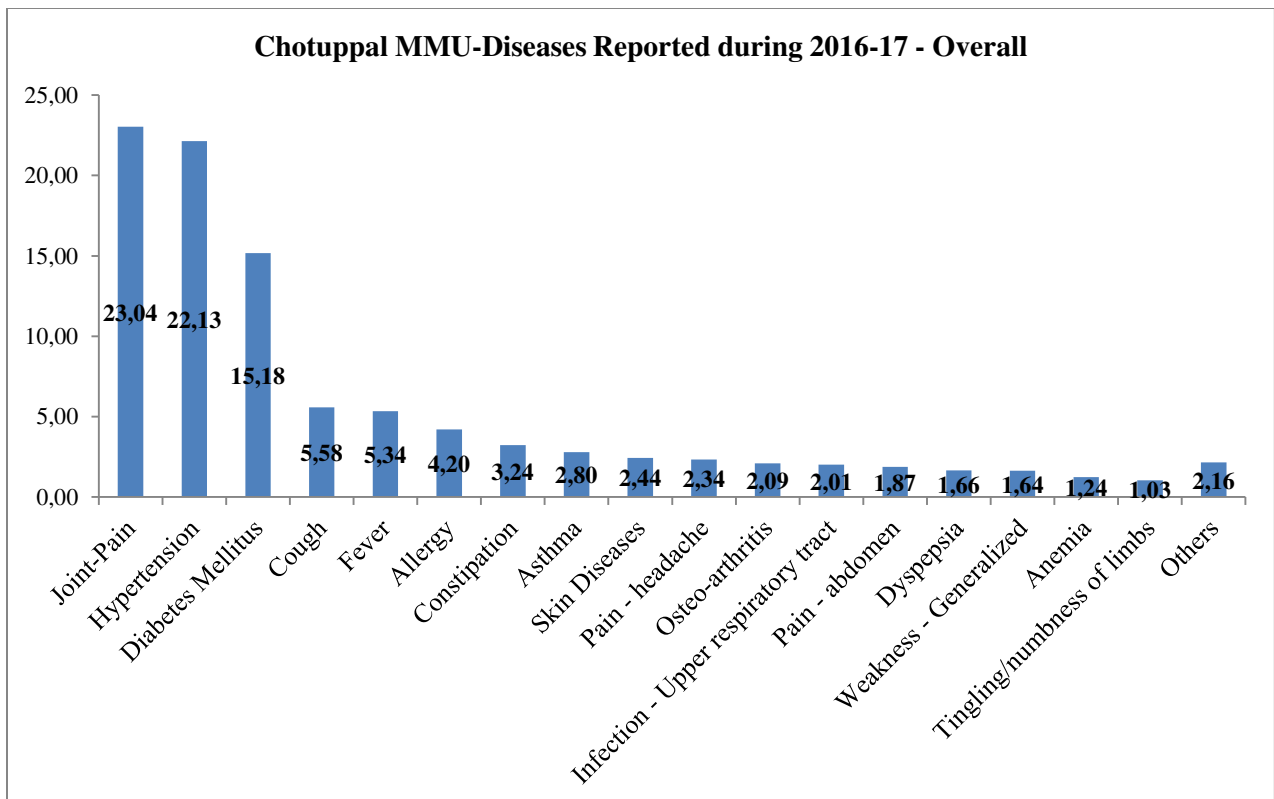


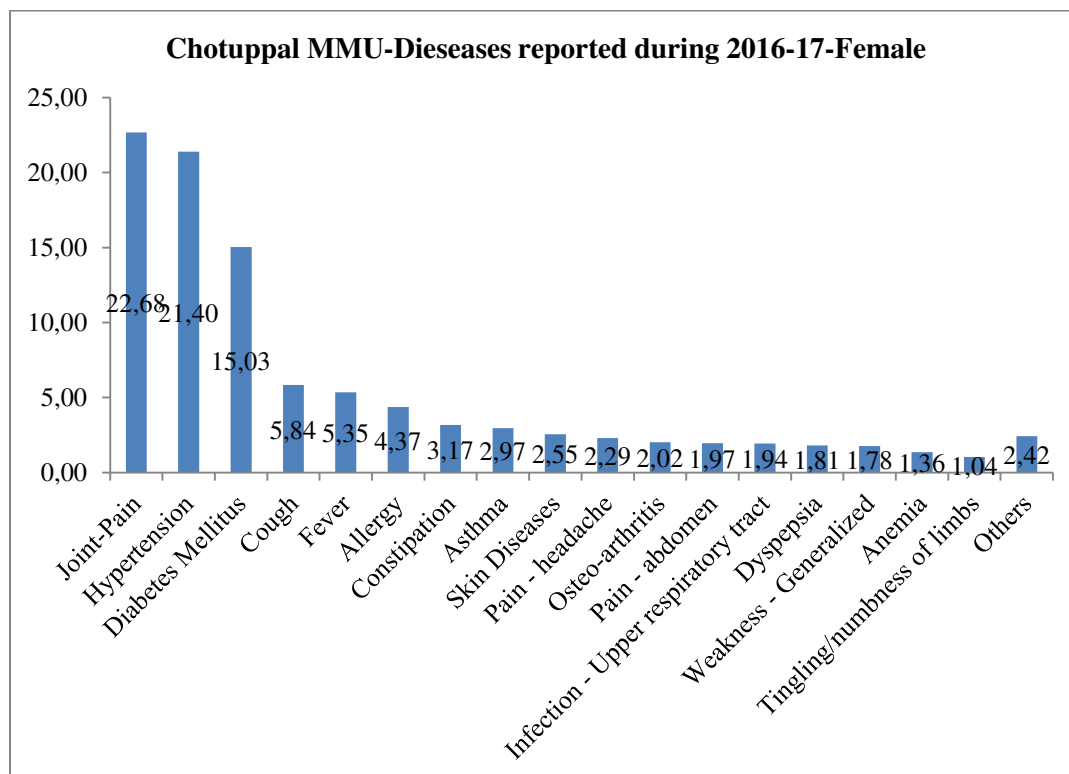
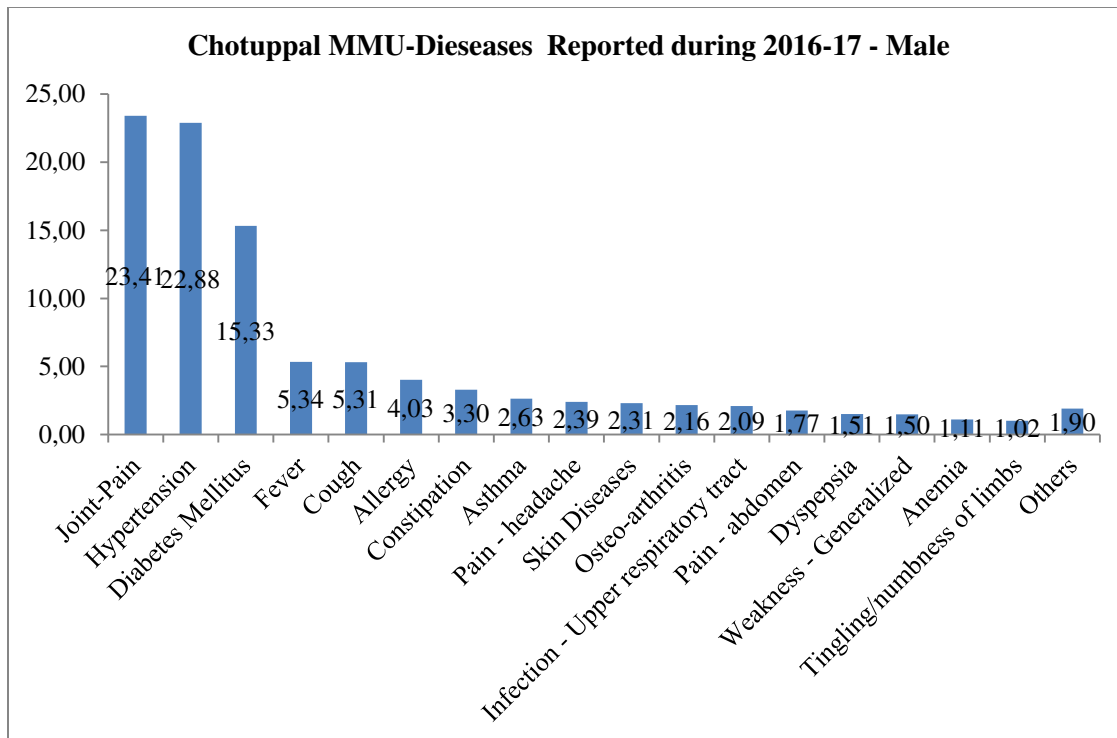
Choutuppal MMU Site Schedule						
S.NO	District Name	Site Name	Day	Shift	Timings	Name Of Gram Panchayat
1	Yadadri	Narayanapur	Monday	Morning	9:15 am to 1:00 pm	Narayanapur Gram Panchayat
2	Yadadri	Janagam	Monday	Afternoon	2:00 pm to 4:30 pm	Janagam Gram Panchayat
3	Yadadri	Chandragoni Thanda	Tuesday	Morning	9:15 am to 10:30 am	Mohammadabad Gram panchayat
4	Yadadri	Venkombai Thanda	Tuesday	Morning	10:30 am to 11:15 am	Narayanapur Gram Panchayat
5	Yadadri	Dubbagundla Thanda	Tuesday	Morning	11:15 am to 11:45 am	Peepal Pahad Gram Panchayat
6	Yadadri	Yenagondi Thanda	Tuesday	Morning	11:45 am to 12:30 pm	Peepal Pahad Gram Panchayat
7	Yadadri	Allapur	Tuesday	Afternoon	12:30 pm to 2:00 pm	Allapur Gram Panchayat
8	Yadadri	Peepal Pahad	Tuesday	Afternoon	2:00 pm to 4:45 pm	Peepal Pahad Gram Panchayat
9	Yadadri	Rachakonda (Once in two weeks)	Wednesday	Morning	9:15 am to 12:00 pm	Rachakonda Gram Panchayat
10	Yadadri	Mallareddy Gudem (Once in two weeks)	Wednesday	Afternoon	12:30 Pm to 2:00 Pm	Mallareddy Gudem Gram Panchayat
11	Yadadri	Nagavarigudem (Once in two weeks)	Wednesday	Morning	9:15 am to 11:15 am	Sarvail Gram Panchayat
12	Yadadri	Lingavarigudem (Once in a two weeks)	Wednesday	Morning	11:15 am to 12:45 pm	Sarvail Gram Panchayat
13	Yadadri	Sarvail	Wednesday	Afternoon	1:00 pm to 4:30 pm	Sarvail Gram Panchayat
14	Yadadri	Gangamula Thanda	Thursday	Morning	9:15 am to 10:45 am	Janagam Gram Panchayat
15	Yadadri	Pallegattu Thanda	Thursday	Morning	11:00 am to 12:00 pm	Janagam Gram Panchayat
16	Yadadri	Vachya Thanda	Thursday	Afternoon	12:15 pm to 1:00 pm	Janagam Gram Panchayat
17	Yadadri	kadapagondi Thanda	Thursday	Afternoon	1:15 pm to 2:00 pm	Janagam Gram Panchayat
18	Yadadri	Kottagudem	Thursday	Afternoon	2:45 pm to 4:30 pm	Kottagudem Gram Panchayat
19	Yadadri	Gollagudem (Onec in a two weeks)	Friday	Morning	7:30 am to 10:00 am	Sarvail Gram Panchayat
20	Yadadri	Momhammadabad (Onece in a two weeks)	Friday	Morning	10:15 am to 12:15 pm	Mohammadabad Gram Panchayat
21	Yadadri	Lakkaram (Onec in a two weeks)	Friday	Afternoon	1:00 pm to 3:30 pm	Lakkaram Gram Panchayat
22	Yadadri	D Nagaram (Onec in a two weeks)	Friday	Morning	7:30 am to 10:00 am	D Nagaram Gram Panchayat
23	Yadadri	Koyyalagudem (Onec in a two weeks)	Friday	Afternoon	1:00 pm to 3:30 pm	Koyyalagudem Gram Panchayat

## Number of Treatments at MMU –Choutuppall-Month wise



Month Average Treatments in Chotuppall MMU Site is 3089 during 2016-17

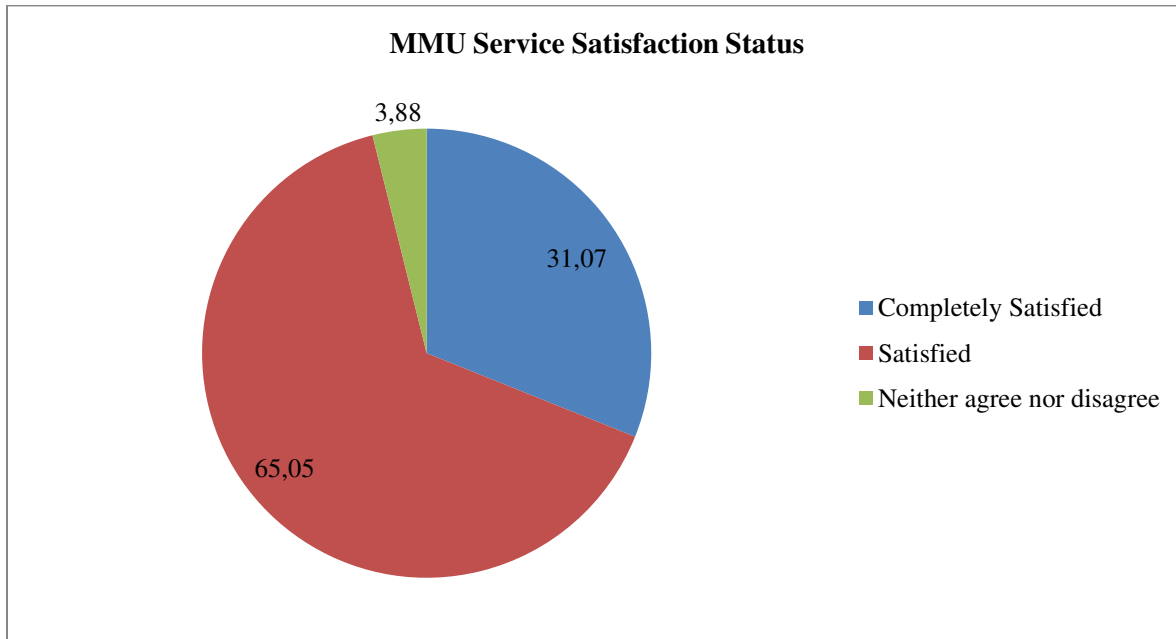




The data make it evident that Joint-Pain, Hypertension and Diabetes Mellitus are common diseases are to elderly people in Chotuppall MMU.

**Primary Data Analysis:****Date of Visit:** 15.3.2018**Total Enrolled Beneficiaries:** around 1400 people from all MMU site villages of Choutuppal**Regularly Visited Beneficiaries:** Around 1000 to 1100 people from all MMU Site Villages**Total Sample Size-MMU Chotuppal:**

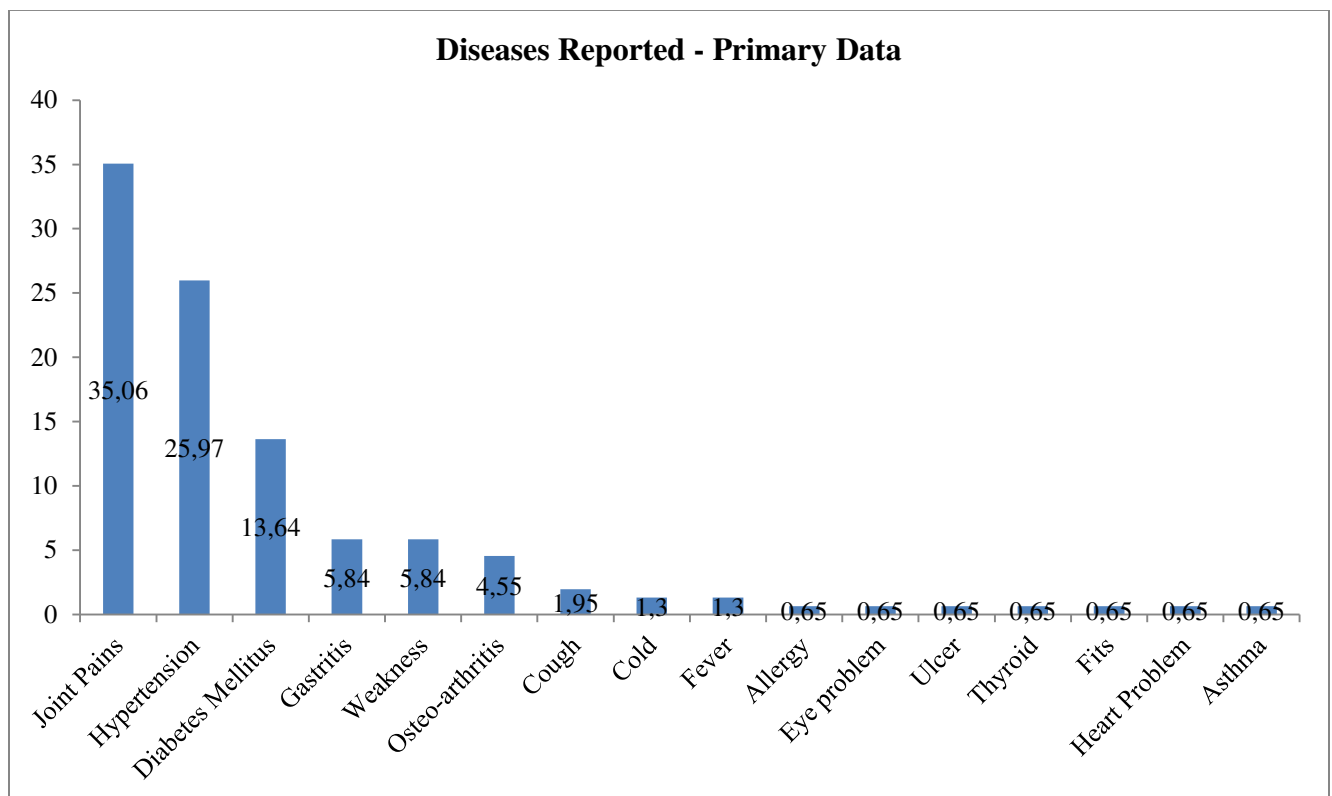
S.No	Name of MMU Site	Sample Size
1	Gangamula Thanda	30
2	Pallagutta Thanda	21
3	Kothagudem	52
	Total	103

**1. MMU Service Satisfaction Levels:**

The graph clearly indicates that majority of the elderly people are satisfied with MMU Service.

## 2) Disease Specific Pattern Reported on 15.3.2018

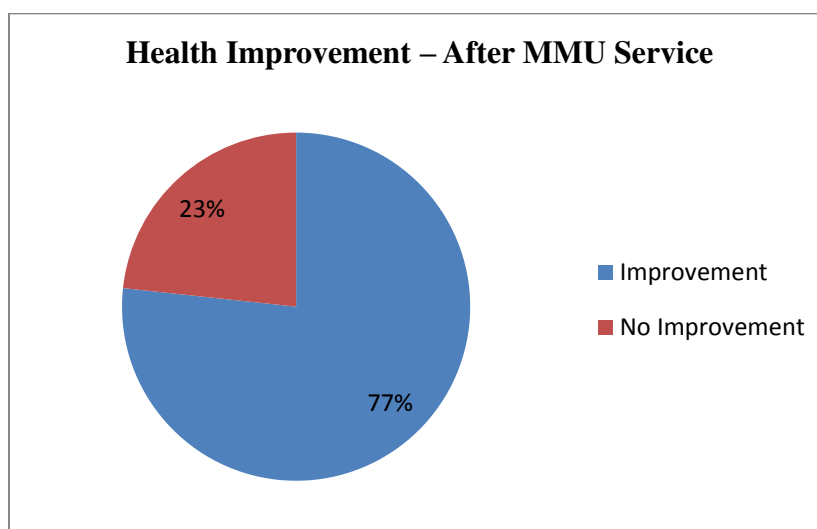
Total Number of Patients responded: 103



The data make it evident that Joint Pain, Hypertension and Diabetes Mellitus are common diseases to elderly people.

## 3) Health improvement – After MMU Service

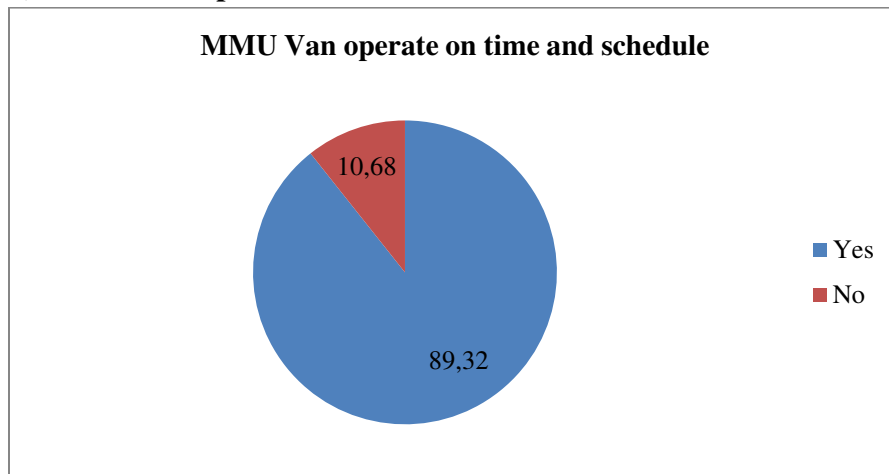
Total Number of Patients: 103



The data exhibits that there is positive improvement in elderly people health after MMU service was started.

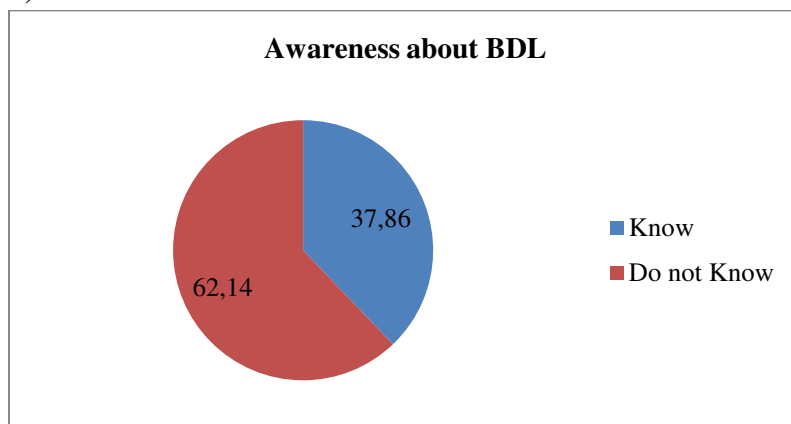
Diseases

#### 4) MMU Van operation – ontime and schedule



The data make it evident that Majority of elderly people said that the MMU Van visits MMU site on given day schedule and time accurately.

#### 5) Awareness About BDL



The data reveals that majority of the elderly people do not know all about BDL.

S.No	Parameter	Satisfaction Levels		
		Highly Satisfied	Satisfied	Somewhat Satisfied
1	Ease in enrolling to the service	☑		
2	Treatment of all health cases			☑
3	Doctors behavior and concern towards patients	☑		
4	Medicines provided		☑	
5	Process of service	☑		

## **MMU Stakeholders Interactions:**

### **Interview with Doctor**

Doctor Name: Dr. Yuva Raj

Qualification: M.B.B.S

Visited Date: 15.3.2018

Dr. Yuva Raju, M.B.B.S has been working as the MMU site doctor for one and half year for Chotuppal MMU. He shared that more than 60% of the patients visiting were elderly villagers coming for the treatment of Hypertension, Diabetes, and Joint-Pains. BDL-HelpAge India is giving free primary healthcare treatment and supplying free medicines to the elderly people who are above 55 years of age. These villages are remotely located and the villagers had to travel an average of 15 kilometers to avail even the basic medical facilities which was extremely difficult in case of emergencies and for the bed ridden elderly people. Now they are all accessing the primary health service at their door steps and getting free medicines for various diseases along with timely follow ups to monitor their developments. Around 140-200 elderly people visit the MMU sites per day for various treatments. Earlier elderly people had to spend Rs. 700/- to Rs. 1000/- every month on medicines for hypertension, diabetes and joint pains, which now became free of cost for them. He further mentioned that MMU vans operate in the nearby areas according to a “Pre Set Journey Cycle Plan” which are followed by the villagers for accessing the healthcare treatment when it comes to their area. More than 90% elderly people are highly satisfied with this MMU service.

### **Interview with Social Protection Officer, Chotuppal MMU**

Name: Shri. Kaladhar

Visited Date: 15.3.2018

Shri. Kaladhar has been working as Social Protection Officer for Chotuppal MMU for last two years. He controls and monitors the total Operation of Chotuppal MMU. On interacting with him, he shared valuable information regarding Chotuppal MMU coverage village site details & schedules and what are the common diseases amongst the elderly people he also elaborated on the treatments specialized for bed ridden patients, shadow health camps, health awareness camps, daily records of the beneficiaries, the enrollment criteria for new patients etc. With help of the pharmacist, he reports the site details of the number of patients visiting daily, details of these patients segregated according to their villages, the various diseases and their diagnosis reports, various drugs/medicines and their stock details, reorder stock details, referral patient details etc. He also provides assistance for referrals to nearby Govt. & Private Hospitals in case of severe health problems / diseases like Piles, T.B, Malaria, Typhoid & Cataract etc.



## Beneficiary -1

Beneficiary Name: Shri. Bichha  
Occupation: Agriculture  
Health Problems: Hypertension, Ulcer

Age: 55  
Village Name: Gangamula Thanda  
Visited Date: 15.3.2018

Shri. Bichha highly appreciated BDL-HelpAge India MMU initiative for the destitute elderly health treatment. He shared that BDL & HelpAge India has been providing the MMU service for the last five years in the village. The mobile dispensary visits the village every Thursday at 9.30 am as per given MMU schedule. Before this service was started by BDL- HelpAge India, the villagers would visit clinics for primary health treatment which required an arduous travel of 5 kilometers. In case of major diseases, or any emergencies, they would visit Chotuppal or Hyderabad city for treatment. Lack of transport facility was a major hurdle in availing medical treatment, especially during night. He further mentioned that majority of village elders are agricultural laborers or retired, dependent on their children and were unable to afford health treatment every month due to poor financial conditions. The MMU facility enabled elderly people to get proper medical treatment without any financial burdens on the family.

Shri. Bichha is presently suffering from hypertension and ulcers and avails the MMU treatment and receives medicines for a week which would earlier cost him about Rs. 700 a month. Now he receives timely medicines with no cost. He is highly satisfied with the MMU treatment and very grateful to them.

## Beneficiary -2

Beneficiary Name: Shri. Gotya  
Occupation: retired  
Health Problems: Joint pain, tingling and numbness

Age: 72  
Village Name: Pallagutta Thanda  
Visited Date: 15.3.2018

Shri. Gotya said that BDL-HelpAge India has been providing free health treatment and medicines for last 5 years in the village. He now visits the MMU site for treatment of joint pain, tingling & numbness. Earlier he would visit Chotuppal, Narayanpur, Vailapally for primary health treatment. Due to age constraint, he was unable to visit the hospitals alone and was highly dependent on his children for every hospital visit. He would also spend around Rs. 1000/- per month. After the BDL- HelpAge India initiative for rural health care development, he has easy access to the primary health services at his door steps. He also elaborated that health care accessibility has increased a lot in remote villages like Pallagutta Thanda. He regularly attends the Mobile Medicare Unit service and avails the sufficient medicines free of cost. He expressed his deepest gratitude to BDL and HelpAge India for their social initiatives.

### Beneficiary -3

Beneficiary Name: Smt. R. Sayamma

Age: 64

Occupation: Agriculture

Village Name: Kothagudem

Health Problems: Hypertension & Diabetes Mellitus

Visited Date: 15.3.2018

Smt. Sayamma has been suffering from Hypertension & Diabetes Mellitus for a very long time. Earlier she would visit Chotuppall for treatment of Hypertension & Diabetes Mellitus and spend around Rs. 2000/- for each visit, which was not an easy for her due to poor financial conditions of her family. Now she regularly attends MMU service every week on Thursdays and avails sufficient medicines for B.P and Sugar free of cost, but she still has to go to Chottupal for advanced medical tests. She requested BDL-HelpAge India to provide for testing sugar levels at these MMU sites. After the provision of health care services by these MMU sites, she has been able to save around a 1000/- every month and expresses her deepest gratitude to BDL-HelpAge India for their sincere efforts for the benefit of the poor.

## Profile of MMU coverage Grampanchayat Profiles (Census 2011) – Narsipatnam Mandal, Visakhapatnam District

### i) Population

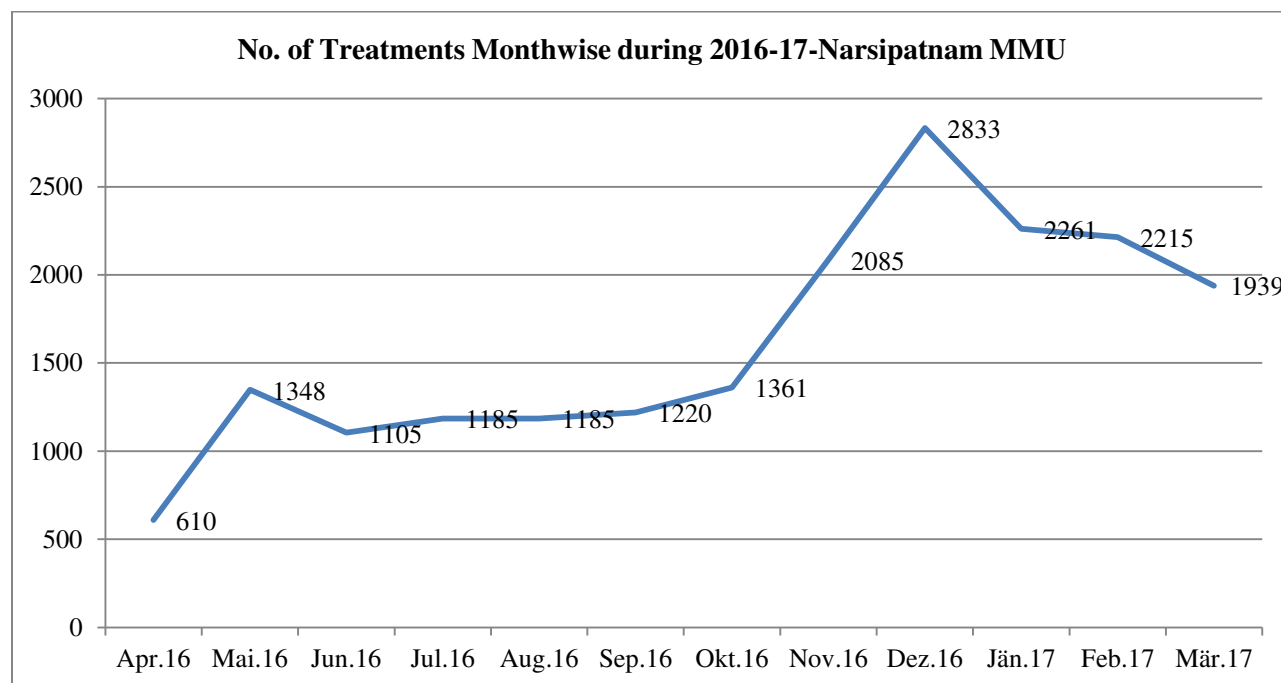
S.No	Name of Grampanchayat	Total Households	Population			SC Population				ST Population			
			Total Population	Male	Female	Total SC Population	Male	Female	%	Total ST Population	Male	Female	%
Narsipatnam Mandal													
1	Narsipatnam (Ayyanna Colony)		33757	16076	17681	-	-	-	-	-	-	-	-
Golugonda Mandal													
2	Pakalapadu	981	3587	1783	1804	208	106	102	5.80	0	0	0	0
3	Pathamallampeta	426	1422	698	724	129	62	67	9.07	608	293	315	42.76
Koyyuru Mandal													
4	Chittempadu	76	438	305	133	0	0	0	0	420	288	132	95.89
5	Nadimpalem	362	1221	588	633	3	1	2	0.25	1035	502	533	84.77
6	Nadimpalem	130	409	204	205	0	0	0	0	335	162	173	81.91
7	Ramarajupalem	136	434	207	227	0	0	0	0	386	186	200	88.94
Kotauratla Mandal													
8	Pamulavaka	795	2858	1404	1454	509	259	250	17.81	3	1	2	0.10
9	Ramannapalem	175	622	316	306	18	8	10	2.89	0	0	0	0
10	K. Ventatapuram (Kodavatipudi G.P)	1882	6,901	3406	3495	646	314	332	9.36	167	77	90	2.42
Chinthapalli Mandal													
11	Samagiri	121	413	192	221	0	0	0	0	400	189	211	96.85
12	Lammasingi	418	1943	969	974	2	2	0	0.10	1797	902	895	92.49
Nathavaram Mondal													
13	Madhavanagar (Nathavaram)	1962	7469	3758	3711	1842	899	943	24.66	273	137	136	3.66

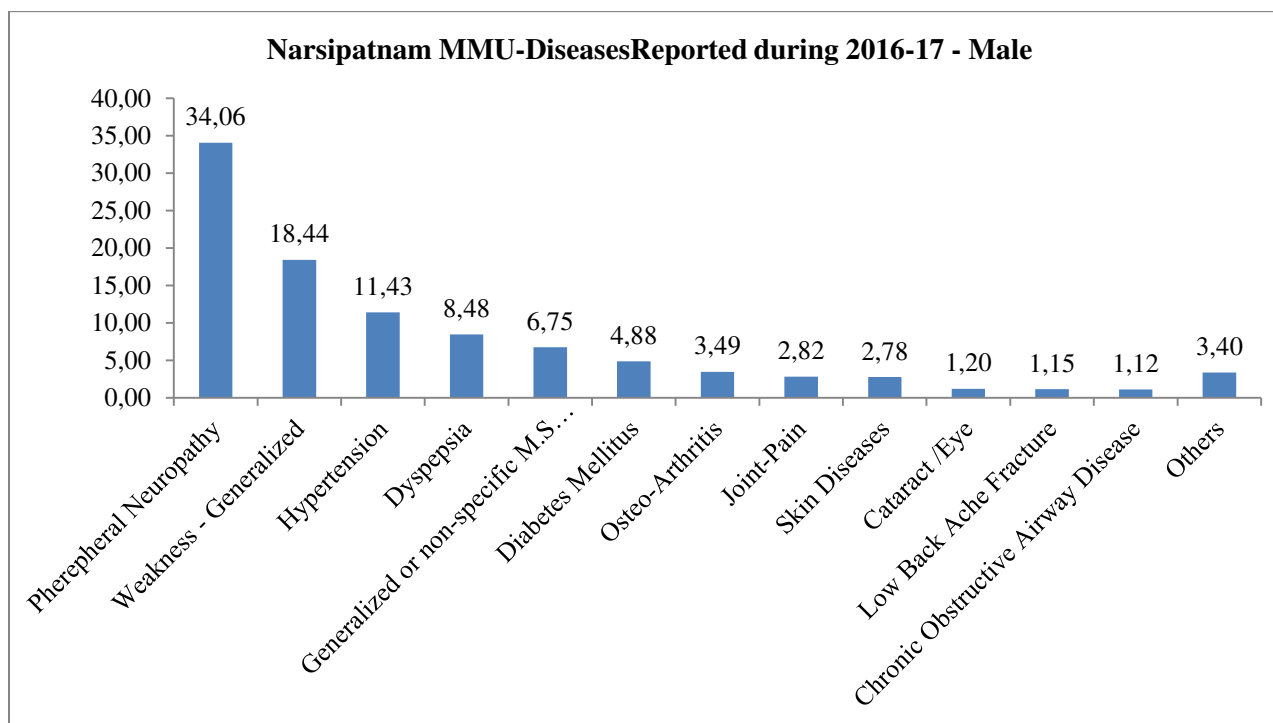
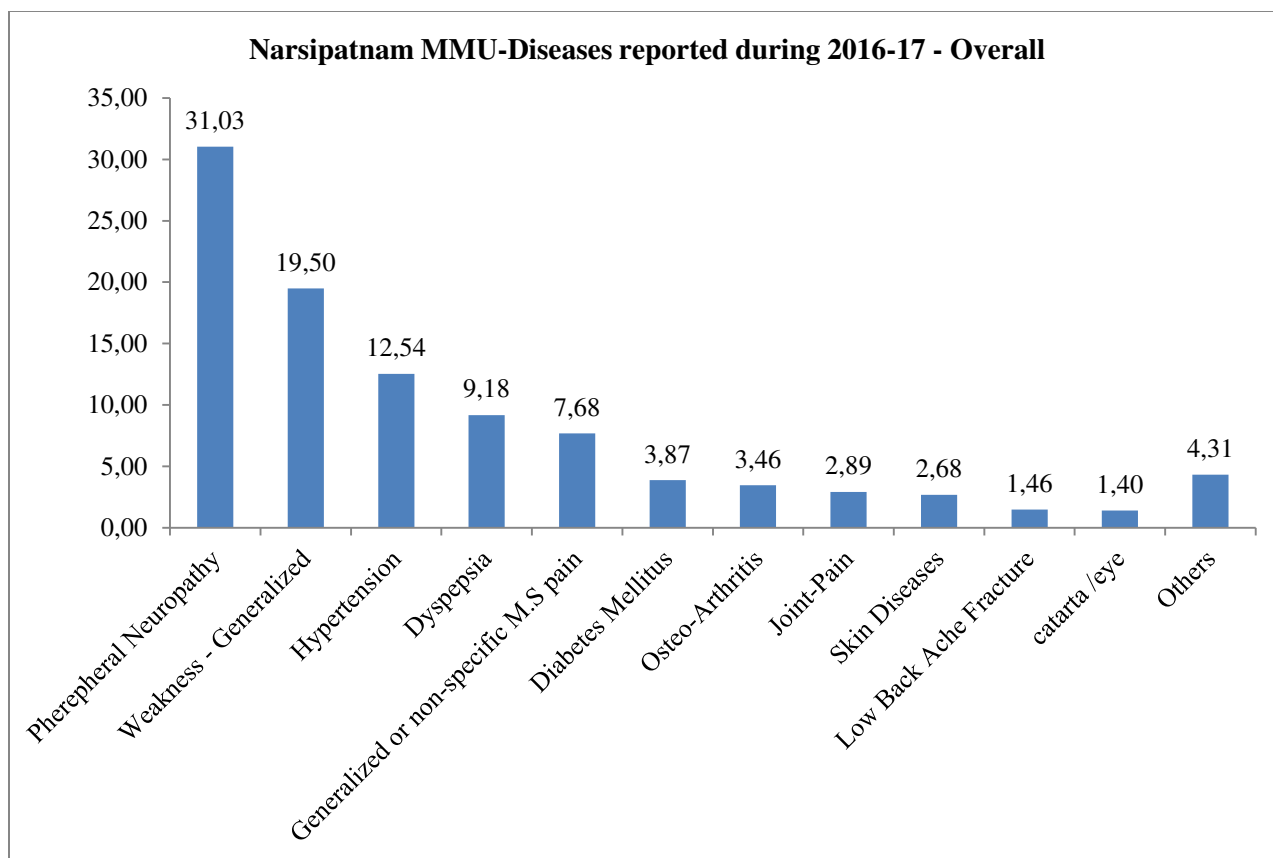
ii) Work Profile

S.No	Name of Grampanchayat	Total Workers	Main Workers	Marginal Workers
<b>Narsipatnam Mandal</b>				
1	Narsipatnam (Ayyanna Colony)	-	-	-
<b>Golugonda Mandal</b>				
2	Pakalapadu	1856	1600	256
3	Pathamallampeta	837	660	177
<b>Koyyuru Mandal</b>				
4	Chittempadu	149	149	0
5	Nadimpalem	682	388	294
6	Nadimpalem	246	161	85
7	Ramarajupalem	282	282	0
<b>Kotauratla Mandal</b>				
8	Pamulavaka	1599	899	700
9	Ramannapalem	390	351	39
10	K. Ventatapuram (Kodavatipudi G.P)	3910	3306	604
<b>Chinthapalli Mandal</b>				
11	Samagiri	256	251	5
12	Lammasingi	989	776	213
<b>Nathavaram Mondal</b>				
13	Madhavanagar	-	-	-

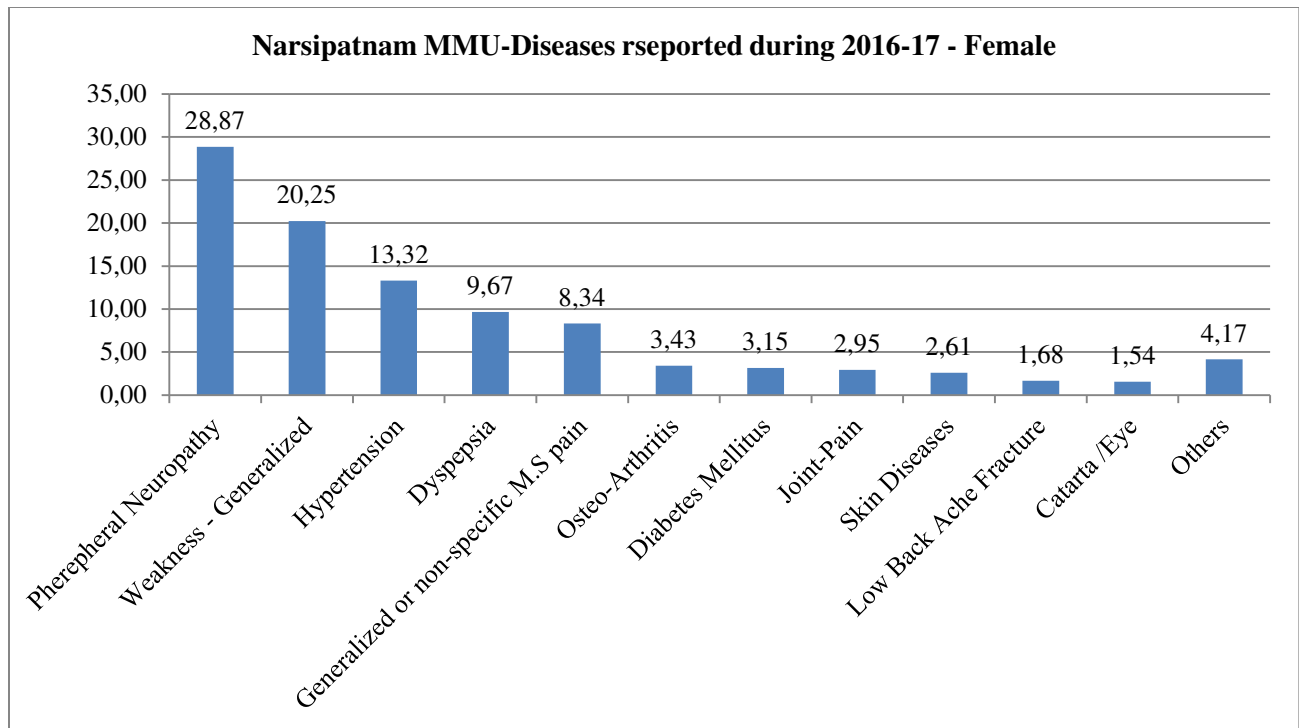
Narsipatnam MMU Site Schedule						
S. No	District Name	Site Name	Day	Shift	Timings	Name Of Gram Panchayat
1	Visakhapatnam	Ayyanna colony	Monday	Morning	9:30 am to 12:30 pm	Narsipatnam Gram Panchayat
2	Visakhapatnam	Pakalapadu	Monday	Afternoon	1:30 pm to 4:30 pm	Pakalapadu Gram Panchayat
3	Visakhapatnam	Nadimpalem	Tuesday	Morning	10:45 am to 11:45 am	Nadempalem Gram Panchayat
4	Visakhapatnam	Ramarajupalem	Tuesday	Afternoon	12:00 pm to 1:30pm	Ramarajupalem Gram Panchayat
5	Visakhapatnam	Chittempadu	Tuesday	Afternoon	2.00 pm to 3.00 pm	Chittempadu Gram Panchayat
6	Visakhapatnam	Pathamallempeta	Tuesday	Afternoon	3.15 pm to 4.00 pm	Pathamallempeta Gram Panchayat
7	Visakhapatnam	Madhavanagar	Wednesday	Morning & Afternoon	10.30 am to 4.30 pm	Madhavanagar Gram Panchayat
8	Visakhapatnam	K. Venkatapuram	Thursday	Morning	10.30 am to 12:30 pm	Kodavatipudi Gram Panchayat
9	Visakhapatnam	Ramannapalem	Thursday	Afternoon	1:30 pm to 2:30 pm	Ramannapalem Gram Panchayat
10	Visakhapatnam	Pamulavaka	Thursday	Afternoon	3.00 pm to 4.30 pm	Pamulavaka Gram Panchayat
11	Visakhapatnam	Sammagiri	Friday	Morning	11.00 am to 1:00 pm	Sarvail Gram Panchayat
12	Visakhapatnam	Lammasingi	Friday	Afternoon	2.00 pm to 4:30 pm	Lammasingi Grampanchayat

### Number of Treatments at MMU –Narsipatnam-Month wise





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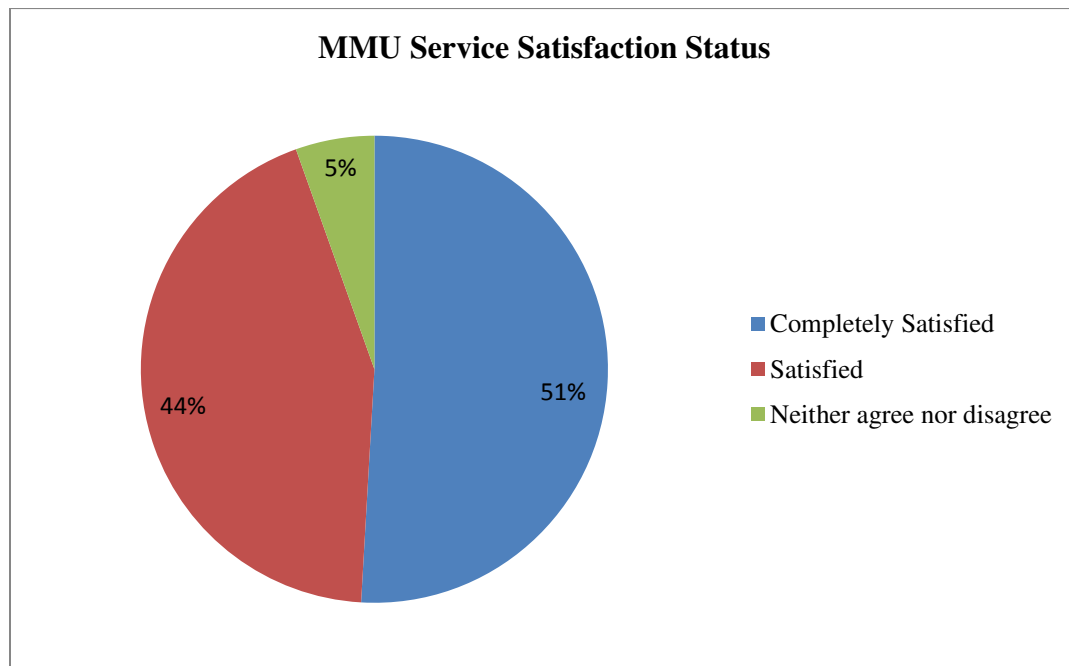


The data exhibits that Peripheral Neuropathy, Weakness-Generalized and Hypertension are common diseases to elderly people in Narsipatnam MMU



**Primary Data Collection:****Date of Visited:** 26.3.2018**Total Enrolled Beneficiaries:** around 1100 people from all MMU site villages of Narsipatnam**Regularly Visited Beneficiaries:** Around 500 to 600 people from all MMU Site Villages**Total Sample Size-Narsipatnam MMU**

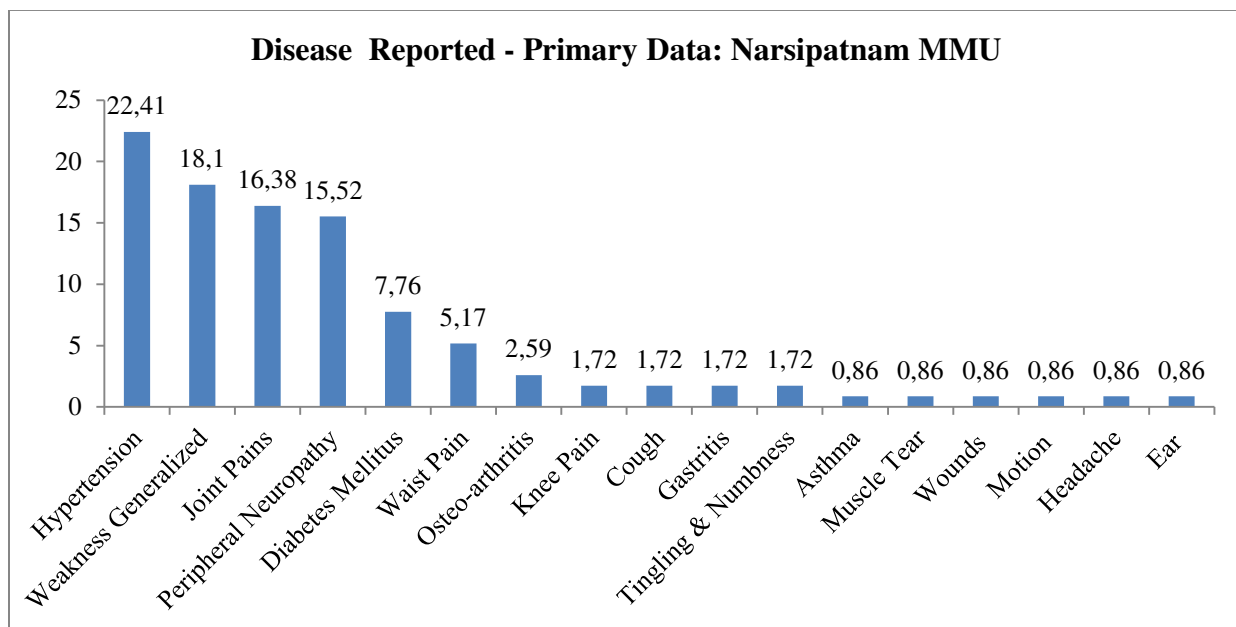
S.No	Name of MMU Site	Sample Size
1	Ayanna Colony	28
2	Pakalapdu	27
	Total	55

**1) MMU Service Satisfaction Levels:**

The data makes it evident that majority of the elderly people are highly satisfied with MMU Service.

## 2) Disease Reported on 15.3.2018

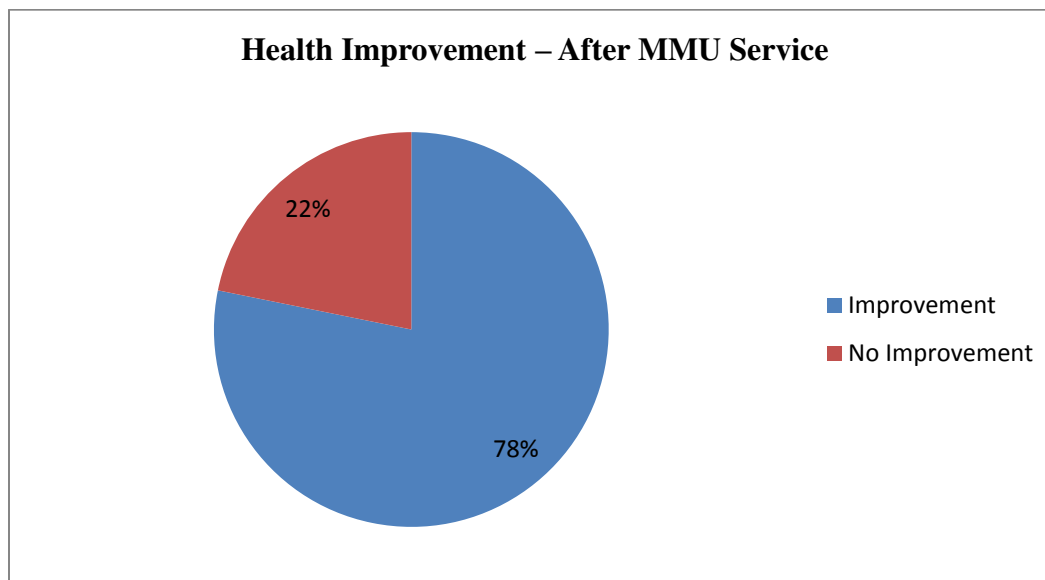
Total Number of Patients: 55



The data makes it evident that Hypertension, Weakness Generalized and Joint Pains are common diseases for the elderly people.

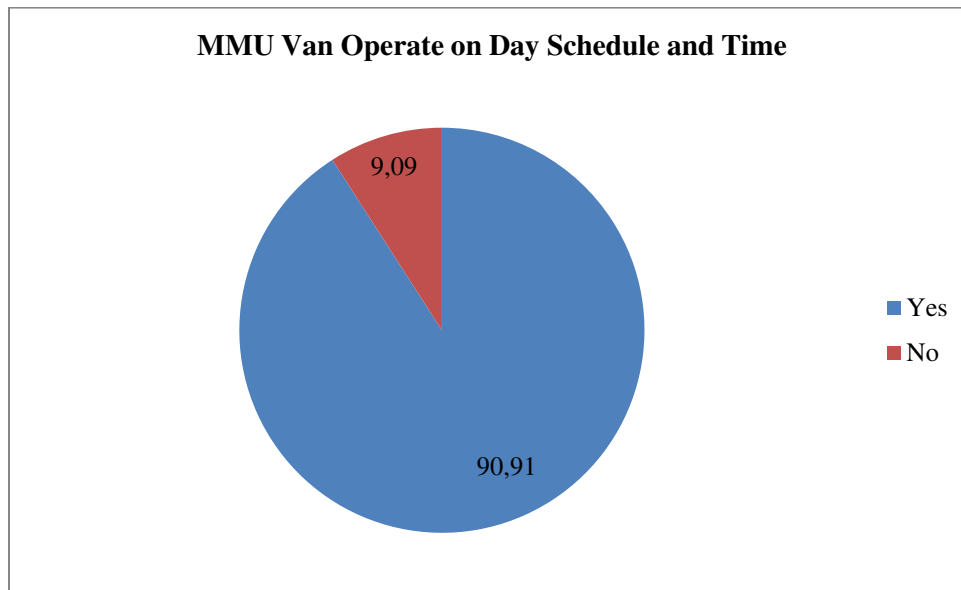
## 3) Health improvement – After MMU Service

Total Number of Patients: 55



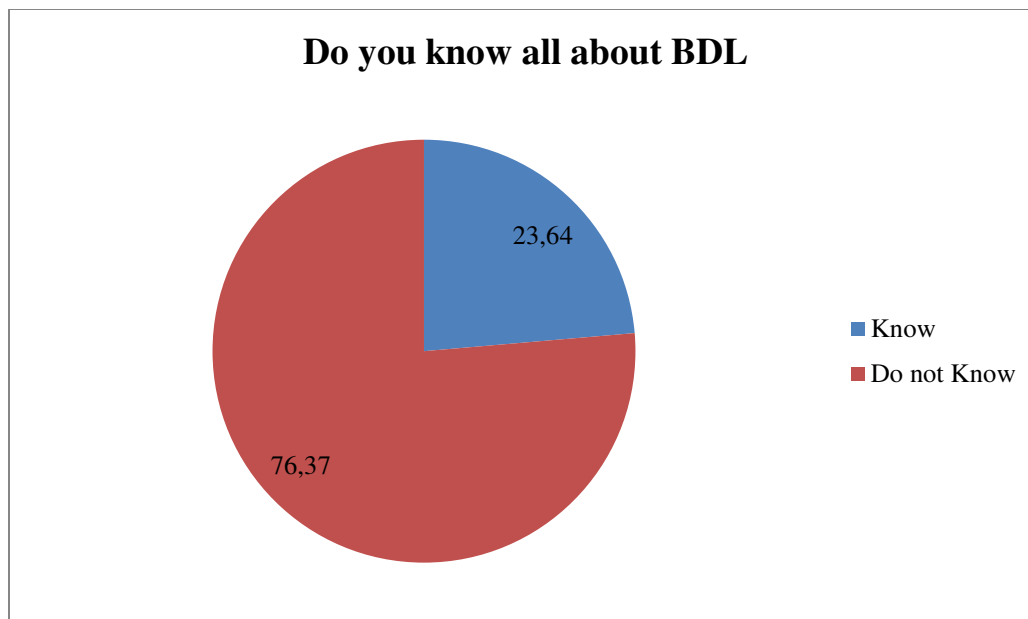
The data exhibits that there is positive improvement in elderly people health after MMU service was started.

#### 4) MMU Van operate on day schedule and time accurately



The data shows that Majority of elderly persons said that the MMU Van visits MMU site on given day schedule and time accurately.

#### 5) Know all About BDL



The data revealed that majority of the elderly people do not know all about BDL.

S.No	Parameter	Satisfaction Levels		
		Highly Satisfied	Satisfied	Somewhat Satisfied
1	Ease in enrolling to the service	<input checked="" type="checkbox"/>		
2	Treatment of all health cases		<input checked="" type="checkbox"/>	
3	Doctors behavior and concern towards patients	<input checked="" type="checkbox"/>		
4	Medicines provided		<input checked="" type="checkbox"/>	
5	Process of service	<input checked="" type="checkbox"/>		



**Ayanna Colony – Narsipatnam MMU Site**

### **MMU Stakeholders Interactions:**

#### **Interview with Doctor**

Doctor Name: Dr. Sri Rama Murthy

Qualification: M.B.B.S

Visited Date: 26.3.2018

Dr. Sri Rama Murthy, M.B.B.S has been working as MMU site doctor for one year for MMU Narsipatnam. He has worked for various disciplines of Health department, Govt. of Andhra Pradesh and retired as Dy. DM& HO with 25 years of rich experience in healthcare & medical education. He shared that around 100 elderly people visit the MMU sites for various treatments on an average per day. Majority of the elderly people visit the MMU sites for the treatments of various diseases/health problems like joint pains, osteoarthritis, hypertension, weakness generalized and peripheral neuropathy etc. Majority of the elderly people are now regular to

MMU health treatment and even if they cannot visit the MMU site personally they tend to get the medicines through their family members. The doctors have been very patient and diligent with the villagers despite of facing lot of problems.

With a long term experience in Government hospitals he was able to carve out a comparison in the services provided by Govt. hospitals and BDL-HelpAge India MMUs. Sufficient facilities / medicines are not available for various treatments at Government Hospitals and that is why many elderly people are reluctant to visit the govt. hospitals. Whereas BDL – HelpAge India is addressing various health diseases/problems of elderly people and providing sufficient medicines to them free of cost. He suggests referrals to various hospitals in case of emergencies and complicated cases like cardiac disorders, T.B, typhoid, dengue etc. he was very glad to share that the patients were very happy and grateful for the treatments being provided and there was an overall healthy and positive atmosphere in the village.

### **Interview with Shri.Kiran Babu, Social Protection officer**

#### **Chotuppal MMU**

**Visited date: 26.3.2018**

Shri. Kiran Babu has been working as Social Protection Officer for MMU-Narsipatnam since inception of the MMU service in April, 2017. He said that Narsipatnam MMU covers 13 villages for MMU service of elderly people and around 30 villages in the vicinity of these MMU sites also avail the medical facilities. 120-130 elderly people avail the MMU service on an average per day. Hypertension, joint pains, diabetes, asthma, motion problem, Digestion problems are common diseases / health problems for the elderly people in these areas. He also shared that earlier Narsipatnam MMU elderly people would visit Narsipatnam, Tuni, Kakinada and Visakhapatnam for various health treatments and spend Rs. 1000/- to 1500/- for each visit to the hospital and no follow ups were done as to whether the medication was consumed properly and positive results were seen or not. After the inception of the MMU service, elderly people avail the medicines every week for various diseases free of cost. The MMU staff not only distributed medicines to the elderly people for various diseases, but also conduct follow ups to check whether they have used the medicines properly or not and also take feedback about the MMU services for addressing various issues and making the services for beneficial. The emergency and critical cases are referred to Visakhapatnam or Kakinda hospitals, by the MMU doctors.

He further mentioned that Narsipatnam MMU also conducts shadow health camps, General Health camps and Health awareness programs in an around the MMU sites. Shadow Health camps are conducted regularly on various diseases like hypertension, diabetes, osteoarthritis & various other diseases and 10 days medicines are supplied to the elderly people who attend these programs. The MMU staff also educate the elderly people regarding free MMU services for the BPL citizens and for elderly aged 55 years and above, and helps them to join the nearby MMU sites for availing free health treatment.

## Beneficiary -1

Beneficiary Name: Shri. Dadi Veerabhadra Rao	Age: 63
Occupation: Agriculture	Village Name: Tiruwada, Madgula (M)
Health Problems: Tingling and numbness, osteoarthritis	Visited Date: 26.3.2018

Mr Veerabhadra Rao, Age 63, Tiruwada Village, Madgula (Mandal) has been visiting Ayanna Colony MMU site for last one month. He got to know about BDL HelpAge India MMU healthcare treatment service from one of his friends and enrolled his name in Ayanna Colony MMU site. On interacting with him, he said that he came from Tiruwada Village, Madgula Mandal, which is 50 kms away from the MMU site Ayanna Colony. Earlier, he would visit the various hospitals in Chowdavaram, Visakhapatnam & Anakapally and spend around Rs. 1000/- to Rs. 1500/- for treatment of tingling & numbness, osteoarthritis, and joint pains etc., but there was no improvement in his health. He has slightly relieved from pain, tingling and numbness after accessing the BDL MMU service. He regularly visits the MMU site every Monday and highly appreciates BDL for their kind effort.

## Beneficiary -2

Beneficiary Name: Smt. Killada Bullamma	Age: 60
Occupation: Agriculture	Village Name: Pakalapadu
Health Problems: Hypertension & Osteoarthritis/Joint Pain	Visited Date: 26.3.2018

Smt. Killada Bullamma, age 60, Paklapadu has been availing the MMU service at Pakalapadu since the MMU got established in that area. She visits the MMU site regularly on Mondays for the treatment of hypertension and osteoarthritis/joint pain. Before the MMU services started, she frequently visited R.M.P service for treatment of hypertension and joint pains, but she was not satisfied completely with that service and she spent around Rs. 300/- to 400/- for health treatment on an average every month. Presently she is availing medicines for hypertension & joint pains with no cost and she is highly satisfied with this MMU service.

## Findings / Observations

- Around 60% of the beneficiaries are suffering from Hypertension, Diabetes, Joint Pains & Osteo-arthritis
- 140-150 elderly people avail the MMU facility on an average per day
- *Bed ridden patient treatment:* MMU doctor and his assistant visits the bed ridden patient house once in 15 days and check the B.P levels, gives primary health treatment and medicines.



**Bed ridden treatment at Kothagudem MMU site village**

- Health awareness camps are organized regularly in the nearby locations of MMU sites.
- Doctors provide referral to nearby city hospitals in case of any serious ailments.
- Doctor listens to all elderly patient problems carefully and patiently.
- Sufficient medicines are given to elderly patients
- There is an increased accessibility to primary health facility of the elderly people in sites visited.
- It is observed that the average age of elderly people has increased.
- Treatment at the facility is rated high at all locations.



**Health Awareness Camp on Hypertension**

#### **Suggestions:**

- Lab equipment facility for BP, Sugar, Blood and Urine tests can be introduced.
- Injection facility for related issues can be introduced.
- Small hospitals (10-15 bed) can be provided for 4-5 villages.
- Provision for shelter facility for doctors and patients during rainy season.

## Impact

S.No	Parameter	Village Sarpanch & Elders	Elderly people (Beneficiaries)	Villagers	Doctor and MMU Officials & Staff
1	Increase in accessibility of health care services for elderly people	Yes	Yes	Yes	Yes
2	Decrease in elderly person's average death rate	Yes	Yes	Yes	Yes
3	Increase in number of health awareness programs / shadow health camps etc. for elderly people	Yes	Yes	Yes	Yes
4	Reduce in financial burden of elderly people after MMU service	Yes	Yes	Yes	Yes
5	Improve the health levels of elderly people after MMU service	Yes	Yes	Yes	Yes
6	Sufficient medicines / tablets are available to elderly people	Yes	Yes	Yes	Yes
7	MMU van operate on day schedule and time accurately	Yes	Yes	Yes	Yes
8	Doctor listens to the elderly people health problems carefully	Yes	Yes	Yes	Yes
	<b>Overall satisfaction levels of health treatment</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>



### **III AREA: SANITATION**

#### **Project1: Construction of Electronic Toilets (SHEe-Toilets)**

**Budget Allocation: Rs. 2 crores**

**Spent: Rs. 1.80 crores**

**Date visited: 4-4-2018**

#### **Introduction**

In line with the Swachh Bharat Mission, the Government of Telangana has launched the Swachh Telangana Mission with a goal of achieving “open defecation free cities” by 2019. The primary objective is to achieve open defecation-free towns, ensuring adequacy through construction of toilets – Individual Household Latrines (IHHLs), community and public toilets and effective operations and maintenance. Besides restoration of dignity, privacy, safety and social status, sanitation has strong bearings on child mortality, maternal health, water quality, and gender equity, reduction of hunger and food security, environmental sustainability and ultimately poverty alleviation and improvement of overall quality of life. Bharat Dynamics Limited (BDL) has entered into an agreement with the GHMC with regard to 21 She-Toilets in the city as part of its Corporate Social Responsibility during the year 2016-17.

GHMC-BDL has selected public places like bus stands, parks, railway stations etc. for SHE E-toilets where more people commute to other places. It is very useful to students, employees, daily commuters etc. SHE e-Toilet is a modular pre-fabricated public toilet with SHE accessories especially for ladies, made of stainless steel which is integrated with user friendly electronic interfaces. These are sophisticated, unmanned, and automated having remote monitoring capabilities to track its health status over web.

E-toilets, by integrating electrical, mechanical and web mobile technologies, incorporate full-cycle approach in sustainable sanitation installed especially for women, as they face the problems due to non - availability of exclusive SHE e-toilets with automatic operating system and other facilities to cater to their special needs. The benefits of having e-toilets are priceless, including providing best access to female and physically challenged that motivates them to use the toilets.

With a request made by GHMC, the program has also received funding support from the various esteemed organizations as part of corporate social responsibility – CSR initiatives and partnered with the innovative project initiated by GHMC. The initiative intended to improve the city’s public amenities and to enhance the city’s aesthetics and caters to the huge need for public toilets, especially for women as they face the problems due to non - availability of exclusive SHE toilets with automatic operating system and other facilities to cater to their special needs has envisaged for installation of ‘SHE’ e-toilets wherever necessary at various locations of

Hyderabad City. The 'She toilets' can be accessed by inserting Rs.1, Rs.2 or Rs.5 coins. The units have smart and eco-friendly lighting and flushing systems

"E-toilets have sensor-based cleaning and flushing system. Once the user leaves an e-toilet, it gets flushed on its own...hence; there will be no question of neglecting (cleanliness)." Such lavatories will also have auto floor wash facility which will keep the premises clean.

### **Status of SHE e-Toilets**

#### **Units which are Open Public (Working)**

- Dilsukhnagar bus stop
- Golconda
- Habsiguda
- Secunderabad Bus Stop
- General Bazar
- Panama Bus Stop/ Ganesh Nagar
- Sanatnagar Opposite Police Station
- KBR Park 1
- KBR Park 2
- Tarnaka Bus Stop

#### **Units installed work in progress**

- Mehadipattanam bus stop
- Nampally Public Gardens
- AS Rao Nagar Bus Stop
- L.B Nagar (Nakshatra Hotel)
- Miyapur Opposite Traffic Station
- Suchitra Balaji Hospital
- Suchitra Academy1
- KPHB Bus Stop
- Jeedimetla ESI Hospital
- Fever Hospital Bus Stop
- Chaitanyapuri Bus

#### **Average Users per day:**

S.No	SHE e-Toilet Area	Commencement	Average number of beneficiaries per a day
1	Dilsukhnagar	27.3.2017	25-30
2	Golconda	8.3.2018	25-30
3	Secunderabad	2.8.2017	25-30
4	General Bazar	3.8.2017	25-30

5	KBR Park -1 & KBR Park-2	8.3.2018	20-25
6	Habsiguda	6.6.2017	20-25
7	Panama Bus Stop	29.12.2017	15-20
8	Tarnaka Bus Stop	8.3.2018	15-20
9	Sanathnagar	16.2.2018	15-20

Out of 24 She-E toilets, only 10 toilets were operational till now and majority of the women are not aware of these toilets, hence usage levels of these toilets are very low. Each unit costs about 6.75 lakhs. This initiative was taken up during 2016-17, but majority of the toilets were installed during 2017-18. Still 11 units are yet to be installed this year.

#### **Toilet Features:**

- Stainless Steel (SS 304)
- Toilet can be installed in 126 sq. ft. area
- Toilet status Display – Vacant/ Busy
- Manual exit
- Western type Stainless Steel closet
- Voice assistance system
- Automatic self-cleaning & washing mechanism
- Stainless steel Structure
- Coin-operated Napkin Vending Machine & Napkin destroyer
- Remote monitoring & Control facility through Web/ Mobile App
- Inbuilt water tank

#### **SHE e-Toilet Highlights:**

- Fully unmanned and automated operations
- Enhanced cleanliness through auto flushes & floor washing
- Integrated with lot of technologies for remote monitoring of health status
- Easy to install pre - fabricated steel structure
- Energy conserving & environment friendly
- Mobile/ Web Application for remote monitoring of E-Toilets (24 X 7)

#### **Usage Instructions:**

- Use the toilet if light is green
- Insert Coin (1 Rs. / 2 Rs. / 5 Rs.)
- Pull the door
- Lock the door when inside
- Manual Exit



**“SHE e-Toilet” at Dilsukh Nagar Bus Stand**

GHMC maintains/operates SHE e-Toilets through M/s. Eram Scientific Solution. They install “SHE e-Toilet” and monitor total activity through Mobile and Web Application. If any problem persists in E-SHE toilet, this information is immediately updated in the monitoring system or mobile. Then that area technician will visit that unit, rectify the problem and restore the service immediately. They can also monitor the daily number of usages, coins inserted details etc.

**Interaction with Shri. Pawan Sai, SHE E-Toilet Technician, Eram Scientific Solution:**

Shri. Pawan Sai has been working as Technician for SHE e-Toilets for the Eram Scientific Solution for last 8 months. He said that SHE e-toilet Dilushuknagar was installed in March 2017 and total number of average usage per a day is about 20-25 women. If toilet status box light is green, then toilet is empty, if the toilet status box is red, it indicates that somebody is using toilet. If any woman inserts Rs. 1 or Rs. 2 or Rs. 5 in coin box, automatically door will open, it is fully Automatic system. Sanitary Napkin Vending Machine and Incinerator (Napkin burner) facility is available in the SHE E-Toilet System. Sanitary napkins are available and automatically dispensed when Rs. 5 coins are inserted. Used sanitary napkins, may be burn in the Incinerator. “SHE e- toilets” are installed in very less area and very hygienic as compared to other public toilets. The floor area is also cleaned automatically after every 5 – 6 usages. Manual flush

buttons are also available for cleaning the floor whenever required. Every toilet unit has 1000 to 2000 liters water sump for storage. GHMC provides the water supply for all these toilets. In Dilsukhnagar Unit, sump water connection is directly connected to 24 X 7 GHMC water pipeline. Every SHE e-Toilet has 300 liter overhead tank for toilet usage purpose. Water is pumped automatically from the sump to overhead tank by a motor. The motorswitches on automatically when water level is very low or empty in the overhead water tank. Flush buttons work 5 times only for one user for cleaning of toilet manually. Once user comes out from toilet, the toilet is automatically cleaned by flushing water. Automated floor lights are installed for usage during the night. 10 minutes are available per user after which an automated voice convey “your time is over”. The toilets are cleaned regularly every morning and evening manually by SHE e-toilet Maintenance staff. If there is any electrical shortage in the unit, the unit will be automatically switched off and the information is updated to maintenance unit (service unit) by unit back panel sim updation. Total number of inserted coins, water status, total number of users details are automatically updated to GHMC office / Earn Scientific Solution Maintenance office by online updation system (Mobile/ Web Application).

He further mentioned that the numbers of toilet users are less due to majority of the women do not know about “SHE e-toilets”.

#### **Interaction with Smt. Kesamma, Sugarcane juice vendor:**

Smt. Kesamma, Age-40, Sugar Cane Juice vendor said that BDL-GHML installed a SHE e-Toilet near platform number 1, Dilsukhnagar Bus Stand, 1 year ago. She has been using this toilet since its installation. She shared that earlier she had to go to a public toilet, which is ½ km away from her sugarcane juice stall. It was very inconvenient for her as she had to further wait for 15 – 20 minutes at queues at those public toilets, which were also very unhygienic and poorly maintained. With the installation of the She e-toilets she has better access to hygienic toilet facilities and uses it on a regular basis.

#### **Interaction with Smt. Swapna, Beautician**

Smt. Swapna, Age 30, Beautician shared that many women were not willing to access the public toilets as lack of dignity, privacy and security. But the initiative of BDL-GHMC of installing the SHE e - toilets exclusively for women has helped majorly in addressing these issues. She usually accesses the SHE e-toilet at Dilsukhnagar bus stand while commuting to her beauty parlor. She is highly satisfied with the amenities of Toilet.

**Impact:** The initiative has been started from Feb, 2017 and thus it is too early to be able to measure impact. Satisfaction of users has been studied. 90% of the users are highly satisfied with the cleanliness maintained at the SHE e- toilets.

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**Project 2 and 3: Provision of running water facility for toilets in Govt. Schools, Telangana**

**i) Provision of running water facility for toilets in Govt. Schools, Telangana State**

**Locations: Sangareddy, Nalgonda, Rangareddy Districts (Old district areas), Telangana State**

Implementing partner: Sarva Shiksha Abhiyan, Telangana State

Budget allocation: Rs. 16.43 lakhs

Budget spent: Rs. 16.43 lakhs

**ii) Provision of running water facility for toilets in Govt. Schools of Andhra Pradesh State**

**Locations: Visakhapatnam District, Andhra Pradesh State**

Budget allocation: Rs. 4.20 lakhs

Budget spent: Rs. 4.20 lakhs

BDL carried out two works under this initiative of provision of running water facility in Govt. Schools

a) Construction of hand washing area with fitting of battery of tap series (5-7 tap series).

b) Provision of running water facility for toilets

Total number of schools visited: 4

<b>S.No</b>	<b>Name of the visited school</b>	<b>Number of school children</b>
1	M.P.P.S school, B.J.R Nagar, Kapra mandal, Medchel district	111
2	M.P.P.S school, Malkaram, Kapra mandal, Medchel district	80
3	M.P.P.S school, Arundhathi Nagar, Kapra mandal, Medchel district	80
4	M.P.P.S school, Shanthinagar, Hayathnagar mandal, Rangareddy district	72

## Stakeholder Interaction

### Interaction 1:

Shri. G. Ramesh, Headmaster,  
B.J.R Nagar, Kapra mandal, Medchel district  
Telangana  
Visited date: 3-4-2018



#### **BDL constructed hand washing area with fitting of battery of tap series**

Shri. G. Ramesh, Headmaster said that BDL constructed hand wash area with fitting of battery of taps for school children during the year 2016-17. The school children have been trained to wash their hands before and after every meal and after using the washrooms as well, inculcating healthy and hygienic habits in them. Presently 4 taps are in good and working condition. On interacting with 4<sup>th</sup> class students, it was observed that school children used the hand wash area regularly for cleaning of their hands.

### Interaction 2:

Shri. Laxma Reddy, Headmaster,  
Shanthinagar, Hayathnagar mandal, Medchel district  
Telangana  
Visited date: 7-4-2018

Shri. Laxma Reddy, Headmaster said that BDL constructed hand wash area with fitting of battery of taps and provided running water facility for the school toilets during the year 2016-17. Presently 3 taps are working in a good condition currently. All school children are accessing the toilet facility with sufficient water and good hygienic conditions.

On interacting with V class students Sai, Mahesh and Ragavi, it was observed that students use the toilets and hand wash area regularly. Students are now more aware about good health and sanitary habits. School children and teachers appreciated BDL's commendable initiative of Swach Vidyalaya Abhiyan.

**Project 4.****Maintenance of School Toilets in Govt. Schools of Telangana**

Locations: Sangareddy, Nalgonda, Rangareddy Districts, Telangana State

Implementing partner: Sarva Shiksha Abhiyan, Telangana State

Budget allocation: Rs. 27.81 lakhs

Budget spent: Rs. 27.81 lakhs

Total number of schools selected for this initiative: 103

Number of Schools Visited: 11

<b>S.No</b>	<b>Name of the visited school</b>	<b>Number of school children</b>
1	M.P.P.S school, B.J.R Nagar, Kapra mandal, Medchel district	111
2	M.P.P.S school, Malkaram, Kapra mandal, Medchel district	80
3	M.P.P.S school, Arundhathi Nagar, Kapra mandal, Medchel district	80
4	M.P.P.S school, Shanthinagar, Hayathnagar mandal, Rangareddy district	72
5	M.P.P.S school, Rajeev Gruhakalpa, Hayathnagar mandal, Rangareddy district	30
6	M.P.P.S school, Ravi Narayan Reddy Colony, Hayathnagar mandal, Rangareddy district	85
7	M.P.P.S school, Marripally, Hayathnagar mandal, Rangareddy district	40
8	Z.P.H.S High school, Sulthanpur, Ameenpur mandal, Sangareddy district.	104
9	M.P.P.S school, Gowthamnagar, Patancheru mandal, Sangareddy district	60
10	M.P.P.S school, Shanthinagar, Patancheru mandal, Sangareddy district	61
11	U.P.S. Gandiguda, Ameenpur mandal, Sangareddy dist.	133



**Project 5.****Maintenance of School Toilets in Govt. Schools of Andhra Pradesh**

Locations: Visakhapatnam District, Andhra Pradesh State

Implementing partner: Sarva Shiksha Abhiyan, Telangana State

Budget allocation: Rs. 2.25 lakhs

Budget spent: Rs. 2.25 lakhs

Total number of schools selected for this initiative: 25

Number of Schools Visited: 05

S.No	Name of school visited	Number of school children
1	M.P.P.S school, Madhuramamidi, G. Madgula mandal, Visakhapatnam District	31
2	Govt. PS (TW) school, Karnikalanka, G. Madgula mandal, Visakhapatnam District	17
3	M.P.P.S school, Buruguveedhi, G. Madgula mandal, Visakhapatnam district	16
4	Govt. PS(TW) school, Agampadu, G. Madgula mandal, Visakhapatnam district	5
5	Govt. PS(TW) school, Ubalagaruvu, G.Madgula mandal, Visakhapatnam district	10

**Interaction 1:**

Shri. Raja Ratnam, Deputy Executive Engineer

O/o Sarva Shiksha Abhiyan, Hyderabad

Telangana

Visited date: 2-4-2018

Shri. Raja Ratnam, Deputy Executive Engineer, SSA, Telangana said that with support of BDL, Sarva Shiksha Abhiyan initiated maintenance of school toilets and other developmental activities of school toilets in 103 Govt. schools in Rangareddy, Nalgonda, Sangareddy (old district areas) during 2016-17.

He further mentioned that running water is very important aspect for maintenance of school toilets. Majority of school toilets are dysfunctional in India due to running water problem, to overcome this problem and better maintenance of school toilets, SSA concentrated on running water provision, hand wash area with fitting of battery of taps, sufficient running water facility and repairs of other amenities for school toilets. With support of BDL SSA carried out all these developmental activities and maintenance of school toilets in 103 Govt. Schools in Telangana

during 2016-17. SSA provides Rs. 3000/- every month to Govt. schools in Telangana for maintenance of school toilets.

## **Interaction 2**

Shri. G. Mahadev Singh, Headmaster, M.P.P.S School  
Marripalli, Hayathnagar Mandal, Rangareddy district  
Visited date: 7.4.2018

Shri. G. Mahadev Singh, Headmaster said that through SSA, BDL provided funds for maintenance of school toilets during year 2016-17. The school has employed a scavenger, who cleans the toilets twice a day. Toilets are in neat and hygienic condition because of sufficient running water and good maintenance of toilets by the school teachers and children. BDL has constructed two toilet blocks, each block consisting of 3 urinals, 1 IWC and a Hand wash basin. Total 40 school children are availing this toilet facility with sufficient facilities.

The School also utilized the BDL funds for paying salary to the scavenger costing about Rs. 2500/- and for purchasing a sanitary (hygiene) kit amounting to Rs. 500/-. He appreciated the BDL commendable initiatives of Swachh Bharat Abhiyan.



**Maintenance of school toilets at M.P.P.S school Marripally, Hayathnagar Mandal, Rangareddy District.**

## **Interaction 3**

IV and V class students' interaction at Primary school, Gowthami Nager, Patancheru mandal, Sangareddy district.

On interacting with school children IV and V class students, it was observed that majority of school children are accessing the toilet facility with sufficient water and they are washing their hands in the wash area after using the toilet. Total 60 children regularly use this toilet facility in the school and they are highly satisfied with this facility.

**Observations:**

- Majority of the schools have running water facility for the toilets and the hand wash areas.
- Improved accessibility to running water in all school toilets.
- School children clean their hands before and after lunch and after using the toilet in the hand wash facility.
- It was observed that BDL funds were utilized for salary of scavenger and purchase of sanitary (hygiene) kit for maintenance of school toilets during the year 2016-17
- Sanitation status has greatly improved in majority of schools
- Majority of school children access the toilets with sufficient water
- Majority of the school toilets are working and in good condition
- The toilets are cleaned properly by the scavengers in majority of the schools
- Majority of school children are now more aware about sanitation, safe drinking water and good health habits in schools
- There is a severe water problem in BDL constructed school toilets in G.Madgula mandal, Visakhapatnam district due to non-availability of water in this area. Still school children use the toilet facility by bringing the water from bore well and other water sources.
- Majority of the stakeholders in the society appreciated BDL's commendable initiative of school toilets construction and maintenance of toilets.

**Impact:**

S.No	School Children	Headmaster & Teachers	Village Sarpanch & Elders	School Management Committee	SSA officials
1	Improved sanitation facilities in schools	Yes	Yes	Yes	Yes
2	Improved health & hygiene of school children	Yes	Yes	Yes	Yes
3	Decrease in open defecation in schools	Yes	Yes	Yes	Yes
4	Increase in the awareness of clean water, sanitation and hygienic habits in school	Yes	Yes	Yes	Yes
5	Improved running water facilities in school toilets	Yes	Yes	Yes	Yes
6	Decrease in school dropouts in the schools	Yes	Yes	Yes	Yes
7	Improved maintenance of school toilets	Yes	Yes	Yes	Yes
8	<b>Overall Satisfaction Level</b>	<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>

## **Area IV: Education**

### **Mid-day Meal Scheme**

Locations: i) Sangareddy District-Telangana State  
ii) Vishakapatnam District, Andhra Pradesh State

Budget Allocation: 160.50 lakhs

Spent: 151.89 lakhs

Implementing Partner: The Akshayapatra

Visiting date: 10.4.2018

### **About Midday Meal Program:**

The Midday Meal Scheme is a popular school meal program in India. It involves provision of free lunch on working days in schools. It is one of the very important programs for promoting primary education in the country. The program aims at protecting children from hunger and malnutrition, to increase enrollments and attendance, improve socialization among children belonging to all castes, and social empowerment through employment opportunities for women.

**Midday Meal** in schools has had a long history in India. In 1925, a Midday Meal Program was introduced for disadvantaged children in Madras Municipal Corporation. By the mid-1980s three States viz. Gujarat, Kerala and Tamil Nadu and the UT of Pondicherry had universalized a cooked Midday Meal Program with their own resources for children studying at the primary stage. By 1990-91 the number of States implementing the Midday meal program on a universal or a large scale had increased to twelve states. In 2001 after the landmark decision by the Supreme Court of India on “right to food” and its well-planned implementation of the scheme, has shown very positive results.

### **Present Status:**

Nearly three crore children in the country go hungry as they are beyond the coverage of Midday Meal program and funds have remained unspent in this scheme. Only Rs 8,964 crore has been spent out of allocation of Rs 9,700 crore for the year 2016-17. Out of total enrolment of 13.2 crore children, only 10.3 crore are getting benefit under Midday Meal scheme, as per data provided by State Governments to Ministry of Human Resource Development.

### **BDL MoU with Akshayapatra:**

BDL has signed an MOU with M/s The Akshaya Patra Foundation (TAPF) to partner with the Midday Meal scheme of the state government. Midday Meal is being provided to 10,000 school children studying in 63 Government Schools in the Patancheru Mandal, Medak District, Telangana State & 5000 school children studying in GHMC Schools in Visakhapatnam District, Andhra Pradesh State.



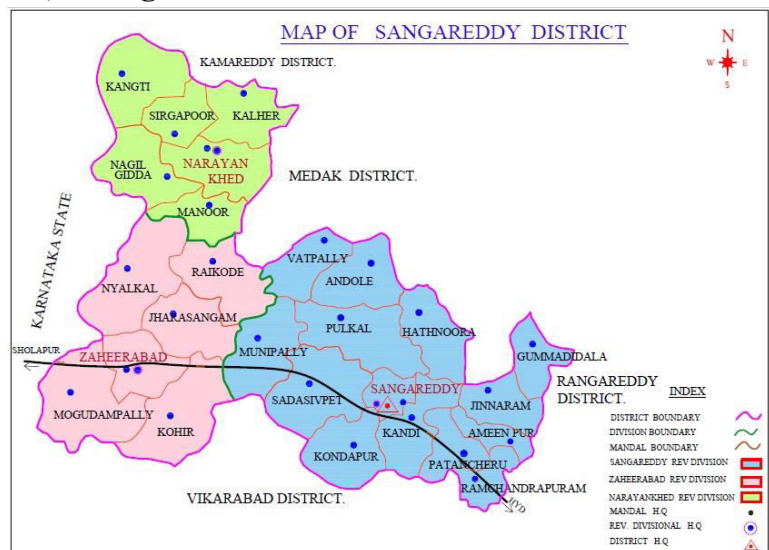
**BDL-Akshayapatra Food Distribution Van**

### About Akshayapatra Foundation:

The Akshayapatra Foundation is a not-for-profit organization headquartered in Bengaluru, India. This organization strives to eliminate classroom hunger by implementing the Midday Meal Scheme in the government and government-aided schools. Alongside, Akshayapatra also aims at countering malnutrition and supporting the right to education of socio-economically disadvantaged children.

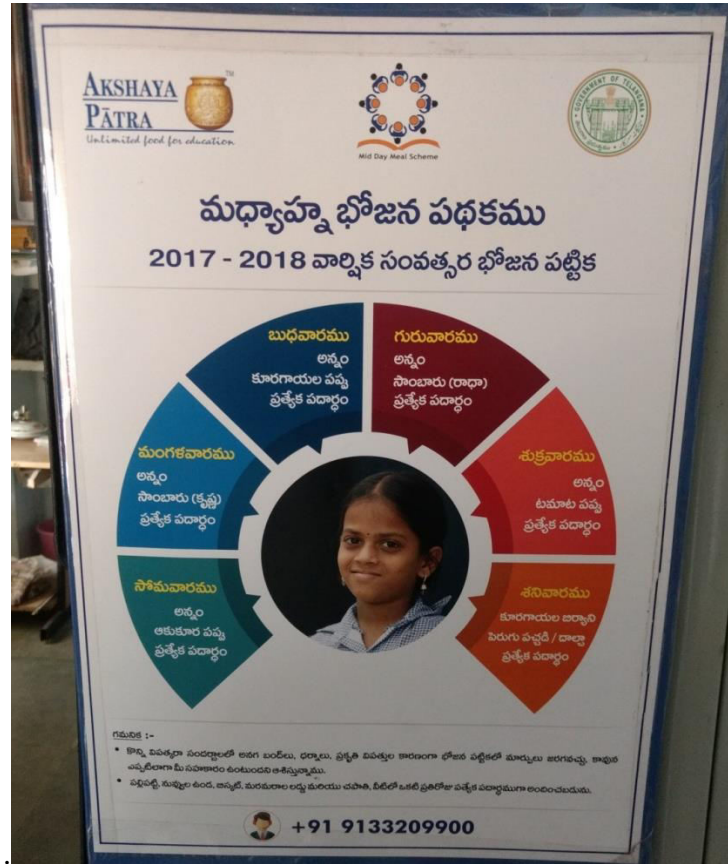
Since 2000, Akshayapatra has been channelizing all its efforts towards providing fresh and nutritious meal to children on school days. Akshayapatra is continuously leveraging technology to multiply their reach. Akshayapatra's kitchens are technology-intensive, and can cook a minimum of 100,000 meal in less than four and a half with minimum human intervention and sustained quality. The cooked food is distributed through heat-insulated, dust-free special purpose vehicles.

### Geographical area of the BDL supported Mid Day Meal Scheme in Patancheru Mandal, Sangareddy District, Telangana State





The tremendous improvement in the school enrollments with attendance in the classes, increased admissions in the school, reduced drop-out rates was a measurable achievement for BDL and Akshayapatra for promoting education for the underprivileged children.



**Mid-Day Meal Menu Chart**

S.No	Day	Menu
1	Monday	Rice, Leaf Pappu (Dal) and Special Food Item
2	Tuesday	Rice, Sambar (Krishna) and Special Food Item
3	Wednesday	Rice, Vegetable Pappu (Dal) and Special Food Item
4	Thursday	Rice, Sambar (Radha) and Special Food Item
5	Friday	Rice, Tomato Pappu (Dal) and Special Food Item
6	Saturday	Vegetable Biryani, Curd Pickle (Perugu Pachadi), Dalcha and Special Food Item

**Note:** Special Food Item means Snacks like Kurukure, Biscuits, Murukulu, Chegodilu etc.

### Stakeholders Interactions:

9 schools out of 63 were surveyed to study the impact of Midday Meal Program and all the stakeholders of the project were surveyed. Teams interacted with the students, parents and the school management and also visited The Akshayapatra Foundation kitchen, located in

Patancheru. Structured questionnaires and focus group discussions was used as tools for the survey and data collection. 89 students from 9 schools, 22 parents and 9 headmasters were interviewed.

Most of the schools are situated at a range of 5 to 10 km distance from the kitchen, with an average distance of 7 km. Necessary arrangements are made to maintain the quality and freshness of food. Food is packed in special containers which in-turn is transported in separate vehicles depending upon the supply route. Up to date records are maintained regarding the movement of the vehicle along with the upload time of food, vehicle departure and return timings. Timing of delivery of food is regularly monitored and also verified from school authorities. According to the school authorities the food reaches much ahead of time and remains hot and fresh till it is served.

The team collected the data from the Headmaster, teaching staff, school children and few parents at these locations. Visits were made to few of the schools during the lunch hours to see the quality of the food being served. Before serving, the food is tasted by the school authorities to ensure that the quality of food is fit for consumption. It was also observed that sufficient quantity of food was being served to all the children in the school and based on availability and demand, students are also allowed to carry the excess food to their homes to prevent wastage and to extend further help to the families in all possible ways.

**Details of schools visited:**

S.No	School Name	Date	Interacted with	Total Number of Students (Beneficiaries)
1	Z.P.H.S Girls High School	10.4.2018	1) Head Master – Shri. R. Prakash 2) Aaya: Smt. Aruna 3) Non-Teaching Staff: Smt. Sujatha 4) 10 Students	254
2	Z.P.H.S High School, Sultanpur	10.4.2018	1) Head Master – Shri. Muralidhar 2) 2 Parents 3) 10 Students	104
3	M.P.P.S Sultanpur	10.4.2018	1) Head Master –Shri. Uday Kumar 2) 6 Students	63
4	M.P.P.S Gowthami Nagar	10.4.2018	1) School Teacher – Smt. Rajani 2) 4 Parents 3) 13 Students	65

5	U.P.S Gandiguda	10.4.2018	1) Head Master 2) 8 Students	133
6	M.P.P.S Shanthi Nagar	10.4.2018	1) Head Master - Shri. P Venkatesh 2) 16 Students	61
7	Z.P.H.S High School, Rudraram	10.4.2018	1) Head Master - Smt. Rama Devi 2) School Staff- Shri. Jeevan Das 3) 6 Parents 4) 8 Students	252
8	Z.P.H.S Kistreddy Pet	10.4.2018	1) Head Master – Shri D Rao 2) 4 Parents 3) 6 Students	130
9	M.P.P.S Chitkolu	10.4.2018	1) Head Master-Shri. Dev Das 2) 6 Parents 3) 12 Students	370

### Survey Findings:

#### 1) Head Master Survey Results- Interactions were held with 9 Head Masters from 63 schools

S.No	Parameter	Survey Out Comes
1	Availability of Midday Meal scheme before the BDL –Akshayapatra Midday Meal	Total 9 surveyed schools had a scheme, but none of them were satisfied with the quality as well as the process.
2	Are there any cases of children falling sick after consumption of food	Not a single case is reported
3	Satisfaction of the students with the present meal	88.89%
4	Awareness about BDL-Akshayapatra initiative	100%

#### 2) Student Survey Results –Interactions were held with about a 100 students from 9 schools

S.No	Parameter	Survey Out Comes
1	Better than home food	87.64% students said that Midday meal is better than home food
2	Regularity of the food service	100% regular



3	Maintenance of hygiene	98.88% of the students were satisfied with the hygiene level
4	Overall satisfaction	95.51 students satisfied with mid day meal
5	Awareness about BDL-Akshayapatra	96.63% students knew about BDL-Akshayapatra

### 3) Parent Survey Results –Interactions were held with about a 100students from 9 schools

S.No	Parameter	Survey Out Comes
1	Are their children happy with the quality of food?	90.91% parents said that their children are happy with quality of food.
2	Is there any Improvement in health	81.82% parents said that there is a improvement in children health
3	Do you know all about BDL	31.82% parents know all about BDL
4	Overall Satisfaction Level	95.46% parents are satisfied with mid day meal programme.

### Impact of Midday meal Scheme:

S.No	Parameter	Impact
1	Enrollment rate	The survey result reveals that in 4 schools the enrollment rate has increased up to 6-8%, in 3 schools the enrolment slightly decreased up to 5-7% and in 2 schools, the enrolment has remained the same. Overall 2-3% enrolment rate has increased
2	Attendance of Students	Since midday meal is served on the basis of students attendance, which is estimated to be around 86%, Most of the Headmasters have reported that the attendance has improved after the introduction of Midday meal in association with BDL-Akshayapatra.
3	Nutrition Level of Students	The headmasters of all the schools have mentioned an increase in nutritional level of students based on the health report



Akshayapatra Midday Meal at Sulthanpur, Patancheru Mandal, Sangareddy District

### Findings / Observations:

- The study clearly reveals that there has been a positive impact of this project in terms of stakeholder satisfaction, improvement in nutritional level of children, improvement in attendance and positive impact on enrollment.
- Majority of the schools have reported significant improvement in the afternoon school attendance because of mid-day meal scheme, which includes snacks also.
- Akshayapatra Foundation is well-equipped, professional and follows all nutritional and safety guidelines in preparing, transporting and delivering food in time for the children
- The children do not have a dedicated seating area where they can consume food
- Before Akshayapatra Midday Meal Program, Head Masters, Teachers and other staff focused on entire process of procurement of food items, preparation and serving the cooked food. That situation disturbed the school functions and the quality education. After Akshayapatra Midday Meal program, teachers are getting sufficient time for class room teaching and other developmental activities.
- Majority of the Head Masters said that the Midday meal van reaches the school every day on time and the meal is served to children between 1 pm to 2.00 pm
- Before serving the meal to school children, head master and school teachers taste the food and if there are any changes in food taste and quality, they report it immediately to the Akshayapatra officials. Akshayapatra field officials also visit the schools regularly take the feedback from school teachers, children and parents about Midday meal program.
- In Z.P.H.S high schools, School food Committees monitor the Midday meal program. They ensure systematic food serving to school children and try to reduce the food wastage as well. The committee consists of one teacher and 4 Student members from IX & Xth Classes, whereas for primary schools Aaya (caretakers) and school teachers monitor the Midday meal program.
- Majority of the schools do not provide R.O safe drinking for children. Children consume bore well / tap water during the Midday meals.

- Vegetable Biryani, Pulihora are the most favourite food items for majority of school children.
- Majority of the students, parents & teachers are satisfied with quality and quantity of the food being provided.

### **Midday Meal distribution to School Children**



### **Suggestions:**

- Majority of the teachers, children and parents strongly suggest that fruits, Chana (Chickpeas (Brown), Palli Patti, Nuvula Patti, sweet items can be added to present snack menu instead of Kurukure, Biscuits, Chegodi, Murukulu.
- Eggs can be added to present menu
- Different vegetable curries and pickles can be considered
- Curries can be made following the local recipes for better consumption by the children

### **Midday Meal Program - Stakeholders Interactions:**

**Shri. R. Prakash, Senior Head Master**  
**Z.P.H.S Girls High School, Patancheru**  
**Visited Date: 10.4.2018**

Shri. R. Prakash, Senior Head Master, Z.P.H.S High school said that BDL-Akshayapatra has been providing midday meals to 255 school children, from VI to X th Classes. The cooked food is distributed to the school daily around between 10.00 am and 10.30 am in special heat-insulated, dust-free, special purpose vehicles and the meals are served at 1.00 pm daily. Students' food committee in the school, which consists of one teacher and student representatives from IX

and Xth classes initiate systematic queue arrangement of children for collecting the meals. Students also stand in queues after having the food for cleaning their hands and plates. He also stated that sufficient amount of food is served to school children and food wastage is very less. Pre decided menus are strictly followed and the national levels are well maintained. Rice, Dal (Pappu), Samber, Vegetable Rice, Curd Chutney are major food items in the Akshayapatra Midday meal. Snacks such as Chegodilu, Murukulu and Biscuits are also being served every day for the children.

He further mentioned that earlier majority of school dropouts were children from migrant families, who worked as laborers in many industries. Due to their low income levels all members of the families had to work to manage a square meal a day. Now Majority of migrant families are sending their children to schools as at least the children can avail a full meal and subsequently, the children are also showing interest in studies and achieving good results. All these positive changes were possible only because of midday meal.

He also suggested that the variety in the food items could be increased to encourage the children to eat as the same food to be consumed repeatedly was monotonous for the students.

### **Interaction with 5<sup>th</sup> Class Students**

**Anuradha, Anji Reddy, Charan, Shiva and Adish**

**M.P.P.S Chitkolu**

**Visited Date: 10.4.2018**

On interacting with a 5<sup>th</sup> Class student - Anuradha, Anji Reddy, Charan, Shiva and Adish, It was observed that majority of children are consuming the midday meal regularly and their favorite food item is vegetable biryani. She also expressed that instead of serving snacks items murukulu, kurukure, biscuits, chegodilu, items such as fruits, sweet, palli patti, nuvula patti, chena (chickpeas (brown) etc. can be served and eggs can be added for better nutritional value. Majority of the students are satisfied with BDL-Akshayapatra Midday meal.

### **Impact Analysis:**

S.No	Parameter	Students	Parents	Head Master & Teachers	Villagers
1	Increase in number of admissions after introduction of Midday Meal scheme	Yes	Yes	Yes	Yes
2	Increase in students' attendance after introduction of Midday meal scheme	Yes	Yes	Yes	Yes

3	Decrease in the rate of school drop-outs	Yes	Yes	Yes	Yes
4	Sufficient quantity of food served to Children	Yes	Yes	Yes	Yes
5	Improvement in the health conditions of the school children	Yes	Yes	Yes	Yes
6	Improvement in the performance of the children	Yes	Yes	Yes	Yes
7	Food Taste and Quality	Good	Good	Good	Good
	<b>Overall satisfaction levels</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>

## **Project 2. School Furniture**

### **Name of Activity: School Furniture for Government Schools in Nalgonda and Suryapet District**

Locations: Narketpally, Nalgonda, Chilukuru, Thipparthi, Chityal

Budget Allocation: 20 lakhs

Budget Spent: 9.75 Lakhs

Implementing Partner: Central Prison, Chanchalguda, Hyderabad



The country's newest state Telangana has unleashed measures for economic empowerment of prisoners. From aggressively marketing the items produced in-house to running petrol filling stations, the prisoners are making a mark in the fields of their choice and churning out revenues for the prisons department. From steel chairs, wooden furniture, soaps, pooja material, carpets, bed sheets and towels to bakery items, the inmates are encouraged to take up economic activities in a big way.

Towards the objective of making the life of prisoners more meaningful and useful while in custody and afterwards, various skills are imparted to the prisoners to help them reintegrated into society after their release. While long term prisoners are provided with opportunities in acquiring skills in various activities, short term prisoners are imparted training in programs like masonry, plumbing, electric wiring, house wiring etc. The National Academy of Construction (NAC) a Government of India undertaking is imparting skills to prisoners in these trades.

With the purpose of reforming and rehabilitating the convicts back into the society. Modern Correctional concept offers a variety of program individual or group therapy session, education, vocational training, maintenance work and other recreational activities. It has enabled the inmates to learn new vocations and lead a life of dignity and self-respect. BDL gave the CSR work order to Central Prison, Chanchalguda, Hyderabad, for Manufacturing of the 1300 Dual desks (School Benches) for 5 mandals of Nalgonda and Suryapet districts as part of inmates rehabilitation and reformation activity during 2016-17.



### **Interview with Mr. Veera Swamy, Administrative Officer, Chanchalguda Jail:**

Mr. Veera Swamy, Administrative officer, Central Prison, Chanchalguda said that BDL gave the CSR work order to Central Jail, Chanchalguda for manufacturing of 1300 dual desks for 5 mandals of Nalgonda and Suryapet districts as part of inmates rehabilitation and reformation. He stated that main aim of this program is to impart various skills to inmates of central prison to help them reintegrated into the society. This Skill development program also assists the inmates in earning and helping their families and teaches them some skills which would be helpful in their ultimate rehabilitation.

He further mentioned that total 45 inmates involved in manufacturing of 650 dual desks (school benches) activity. This project was finished in 6 months and successfully handed over 1300 dual desks (benches) to Narkatpally, Chityal, Nalgonda, Thipparthi, Chilukuru Mandal Z.P.H.S Schools during the academic year 2017-18. During the project, Central Prison paid Rs. 50/- to skilled inmate worker, Rs. 30/- to unskilled inmate workers as wages per day. All 45 inmates worked dedicatedly and successfully completed the project. Majority of inmates sent their earnings to their families.

He finally concluded “Idle man’s brain is devils workshop”, to avoid this with the inmates, Central prison provides various skill development, recreational and educational activities to them. This kind of initiatives may change attitude of convicts and develop the character building & discipline. All these initiatives are very helpful to convicts after their release

**BDL Provided School Furniture for Government Schools:**

- Z.P.H.S High School, Chityal: 130 Dual Desks
- Z.P.H.S High School, Narket Pally -98 Dual Desks +Z.P.H.S Ammanabolu - 32
- Z.P.H.S High School, Nalgonda: 130 Dual Desks
- Z.P.H.S High School, Chilukuru: 130 Dual Desks
- Z.P.H.S High School, Thipparthy: 130 Dual Desks



**BDL Donated Dual Desks (Benches) to Z.P.H.S High School, Chityal and Narketpally**

**Interaction**

Interview with Shri. Ravindar, M.E.O, Chityal Mandal

Shri. R. Sudakar Rao, Head Master, Z.P.H.S High School, Chityal

Nalgonda District

Visited Date: 9.4.2018

Classes from VI to X<sup>th</sup>

Number of School Children: 240 members

Mr. Ravindra, M.E.O, Chityal Mandal Said that BDL provided 130 dual desks (benches) for Z.P.H.S High school, Chityal, 8 months ago. These dual desks are convenient for school children for sitting in the class rooms. There is a provision for school children to keep the books in desk and a back rest as well. Now even the black board is more visible to school children after arrangement of these dual desks and they actively participate in the class room teaching-learning process now. Earlier children sat on normal benches in the class rooms, which were very uncomfortable and did not have sufficient space for writing. This was the reason behind the students developing mental and physical stress while attending the classes and they did not actively participate in the class room learning process. This inconvenient situation disturbed the children education.

He also stated that Chityala Z.P.H.S high school is one of the S.S.C Public Examination Centre in the Chityala Mandal, Every year around 300 S.S.C school children write their public exams in



this centre and School Head Master had to hire chairs& benches from outside for the students to write their exams. With BDL's kind effort, school infrastructure problem has been solved. This infrastructure is sufficient for fulfilling school needs. He highly appreciated BDL's commendable initiative of Providing School Furniture – Dual Desks (Benches) to the School.

### **Interaction**

Interview with Shri. K. Narsimha, M.E.O, Narketpally Mandal

Shri. Srinivas Reddy, Head Master, Z.P.H.S High School, Narketpally

Chityal Mandal, Nalgonda District:

Visited Date: 9.4.2018

Classes from VI to X<sup>th</sup>

Number of School Children: 339 students

Shri. K. Narsimha, M.E.O, Narketpally Mandal said that BDL provided 98 dual desks to Z.P.H.S High School, Narketpally and 32 dual desks to Z.P.H.S High School, Ammanabrolu, Narketpally Mandal. Earlier Z.P.H.S High school, Narketpally provided normal single benches (no back rest and no writing pad) to students from VIII to X Classes and VI & VII class students sat on the floor. Due to lack of school infrastructure, particularly school benches and chairs, the school faced a lot of problems while conducting educational events, public exams, meetings and cultural programs. Students also suffered from lack of concentration and did not actively respond in the class. All these educational infrastructural problems have been solved after BDL's corrective initiatives.

On Interacting with VIII Class Students Sonu Kumar, PYLN Swamy, Dinesh, Bhargavi, Navya Teja Sree, Nadeem from Z.P.H.S High School-Chityal, It was observed that Students sat on dual desks (benches) and they were writing their final examination comfortably. They shared that Earlier students would sit on the floor for writing their examination. It was uncomfortable for them to write the exam sitting on the floor, leading to poor performance in the exams. Now the school has got sufficient infrastructure from BDL and the students are very happy. They participate in class room teaching process very keenly. Students highly appreciated the BDL for providing good quality of dual desks to them (students).



**Single Benches – Earlier Students sat on single benches in the Class Rooms  
Z.P.H.S High School, in Narketpally**

#### **Findings/ Observations:**

- It was a wonderful initiative by BDL. There are two important aspects in this initiative. 1) Reformed and rehabilitated convicts with improved sense of social responsibility and morale 2) Sufficient Education infrastructure (Dual Desks) provided to 5 Mandal Z.P.H.S schools of Nalgonda and Suryapet districts.
- Around 1500 school children were benefited by this infrastructure facility and 45 inmates of jail wards were imparted with employable skills.

#### **Satisfaction**

S.No	Parameter	Students	Parents	Head Master & Teachers	Inmates
1	Increased comfort in seating	Yes	Yes	Yes	Yes
2	Better concentration in class	Yes	Yes	Yes	Yes
3	Better livelihood for inmates	Yes	Yes	Yes	Yes
4	Rehabilitation of inmates	Yes	Yes	Yes	Yes
	<b>Overall satisfaction levels</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>

## Area IV: Safe Drinking Water

### CSR Project: Safe Drinking Water Project

#### Area: Drinking Water

#### Locations: Narayanpur, Janagam, Peepala Pahad

#### District: Yadadri

#### About Naandi Foundation:

Naandi Foundation is a public charitable trust established in the year 1998 with a mission to eradicate poverty. Dr. K. Anji Reddy was the founding chairman of the organization. Currently the organisation is headed by Anand Mahindra. Naandi is a new generation social organization working towards providing innovative, cost effective and sustainable solutions in the areas of safe drinking water, child development and sustainable livelihoods. The initiatives of Naandi Foundation in these areas have touched the lives of almost three million people in some of the most backward regions of 13 Indian states.

#### Baseline Study Results:

A preliminary field evaluation study was conducted to analyze the need of the project in the villages based on parameters such as raw water availability and contaminations, current drinking water sources in the village and cooperation and support from the local governing body.

Nalgonda district is popularly known for majority of its population suffering from Fluorosis for almost decades, due to high fluoride contamination in the ground water which causes joint pain, knee abnormalities and dental problems. Setting up of the Community water treatment centers helped a people lot in accessing safe drinking water, further negating the effects of fluoride contamination on the health of the people.

S.No	Chemical Parameter	Permissible Limits	Janagaon		Narayanpur		Peepala Pahad	
			RW	PW	RW	PW	RW	PW
1	Total Dissolved Solids	500 mg/ltr	1486	55	1640	55	1080	62
2	Total Hardness	200 mg/ltr	690	10	860	10	580	28
3	Total Alkalinity	200 mg/ltr	810	40	925	40	610	28
4	Fluoride	1 mg/ltr	2	≤0.1	2	≤0.1	1.2	≤0.1

#### BDL – Naandi Foundation Governance Mechanism:

In 2012 BDL and Naandi Foundation signed a MoU for installation, operation and maintenance of safe drinking water plants for a period of three years in three villages in the district of Nalgonda. For installation of 3 CWCs Naandi Foundation has received capital cost of Rs.79,24,148/-. In October 2015, the MoU between BDL and Naandi Foundation has been extended for another three years. As per the MoU, BDL has allocated an amount of Rs. 16.20

lakhs for three years for the operation and maintenance of the plants. For maintenance purposes Naandi Foundation receives Rs.15, 000/- every month for each of the CWCs from BDL and the remaining costs are covered by the income generated through sales of the treated water. Total cost incurred for maintenance of each of the CWC per month is Rs.38, 000/- which includes salary of operator, electricity bill, consumables other overheads.



**Women drawing the R.O water at Narayanpur Water Plant**



**Janagam R.O Water Plant – ATM Water Card**

#### **About Water Plants:**

- **Machinery-** A reverse osmosis system with UV & UF technology for treatment of contaminated water.
- **Structure** – Prefabricated structure and Storage tanks – 2 Tanks of 500 liters capacity each

#### **Number of people accessing the community water service**

<b>Plant Name</b>	<b>2014-2015</b>	<b>2015-2016</b>	<b>2016-17</b>
Jangaon	2626	3386	3600
Peepalpahad	2433	1862	1000
Narayanpur	3204	3235	3000

To ensure that people use safe drinking water on a regular basis, the Water Community Centre issues a prepaid card at the beginning of every month to each of the customers. Each card is limited to availing 30 cans of 20 liters each for a month. On an average, a family of 4 or 5 consumes about 1 can of 20 liters of water every day.

### **Process of maintenance of the water treatment plant**

Naandi Community Water Services (NCWS) an implementing partner of Naandi Foundation has an in-house operations team and maintenance & quality team (OMQ). NCWS takes the responsibility of managing the operations and maintenance of the CWC for a minimum period of seven to ten years. During this period, the quality checks and services will be undertaken as per the frequencies recorded below.

<b>S. No</b>	<b>Activity</b>	<b>Schedule</b>	<b>Details</b>
1	Preventive Maintenance	Monthly	Inspection of equipment, plant, on the spot rectifications and plan for servicing
2	Break down Maintenance	When required	Issue resolution for any machinery related breakdown
3	Plant sanitization	Quarterly	Activity for sterilization of the plant, pipe works and tanks
4	Chemical analysis Raw water	Yearly	One litre water sample will be collected from the raw water source and sent to a NABL certified laboratory for analysis.
5	Chemical analysis Product water	Yearly	One litre water sample will be collected from the distribution tap and send to an NABL certified laboratory for analysis. The ISO 10500 standards for drinking water are followed. The latest test results will be made available at the CWC for the reference of users.
6	Microbial testing	Quarterly	
7	Tank cleaning	Cleaning	Cleaning & sterilization of raw & product

### **Implementing Mechanism:**

Naandi Foundation has a specialized field team that helps them with the implementation of the project activities. At the lowest level, they have a technician who visits the plants regularly, a breakdown analyst, a territory officer who takes in charge of 6-10 plants, a cluster head who takes in charge of a cluster of plants and finally a zonal head who is in charge of a total zone. At the village level, a water centre operator and a community organizer have been recruited to

ensure smooth functioning of the Community Water Services. The community organizer also conducts extensive community mobilization activities to spread awareness about safe drinking water.

### **Future plans of hand over of the plant to the village community**

Naandi Foundation's engagement with the village community is generally for a period of seven to ten years starting from the date of inauguration of the Community Water Centers. At the end of the MoU term with the community – the decision to either hand over the CWC to the community or extend their MoU with Naandi to continue with the operation and maintenance of the CWCs; is made based on mutual consent of all parties. In case of handing over of the CWCs - the learning experience of 7 years with Naandi helps them in aspects of self-governance, dispute resolution on water related issue and asset management.

### **Beneficiaries Feedback:**

Naandi Foundation collects feedback from beneficiaries on regular basis during door to door campaigns. They also have a toll free number on their coupons which customers can use to give feedback and complaints

### **Findings / Observations:**

### **BDL-Naandi Foundation R.O Water Plant Operation and usage details**

<b>S.No</b>	<b>Parameter</b>	<b>Narayanpur</b>	<b>Janagam</b>	<b>Peepala Pahad</b>
1	Raw Water Storage Capacity	5000 liters	5000 liters	5000 liters
2	Filtered Water Storage Capacity	5000 liters	10,000 liters	5,000 liters
3	Water Purification in 1 hour	2000 liters	2000 liters	2000 liters
4	Average daily plant operation hours	5 hours	6 hours	1 hour
5	Average usage of plant during rainy and winter seasons	5000-6000 liters (250-300 cans)	6000-7000 liters (300-350 cans)	(800-1000 liters (40-50 cans)
6	Average usage of plant during summer season	8000 liters (400 cans average)	9000 liters (450 cans average)	1200 liters (60 cans average)
7	Total Number of Cards issued	350 registered cards	550 registered cards	80 registered cards
8	Source of Raw Water for Plants	Bore well water	Bore well water	Bore well water



9	Timings of Community Water Services	Morning 6.00 am to 10.00 am and Evening 5.00 pm to 9.00 pm	24 X 7 service (Because of ATM facility)	Morning 6.00 am to 10.00 am and Evening 5.00 pm to 9.00 pm
10	Price for 20 liter of R.O water	2 Rs.	3 Rs.	2 Rs.

**Note: Date is provided by Plant operators**



- Before setting up of the R.O water plants in the villages, villagers would access the water from different sources, which were unfit for drinking purpose.
- The number of consumers decreased in Peepal Pahad and Narayanpur villages water plants because of installation of other new R.O water plants in these villages.
- Majority of the villagers got relief from joint pains and osteoarthritis after consumption of R.O treated water.
- Majority of the villagers are aware of the benefits of safe drinking water, sanitation and good health.
- The taste of the water is much better and it is extremely affordable.
- ATM water machine facility was installed at Janagam community water centre recently. Villagers access the safe drinking water facility any time by swiping the ATM water card.
- Majority of the villagers are highly satisfied with BDL-Naandi Foundation community water services.

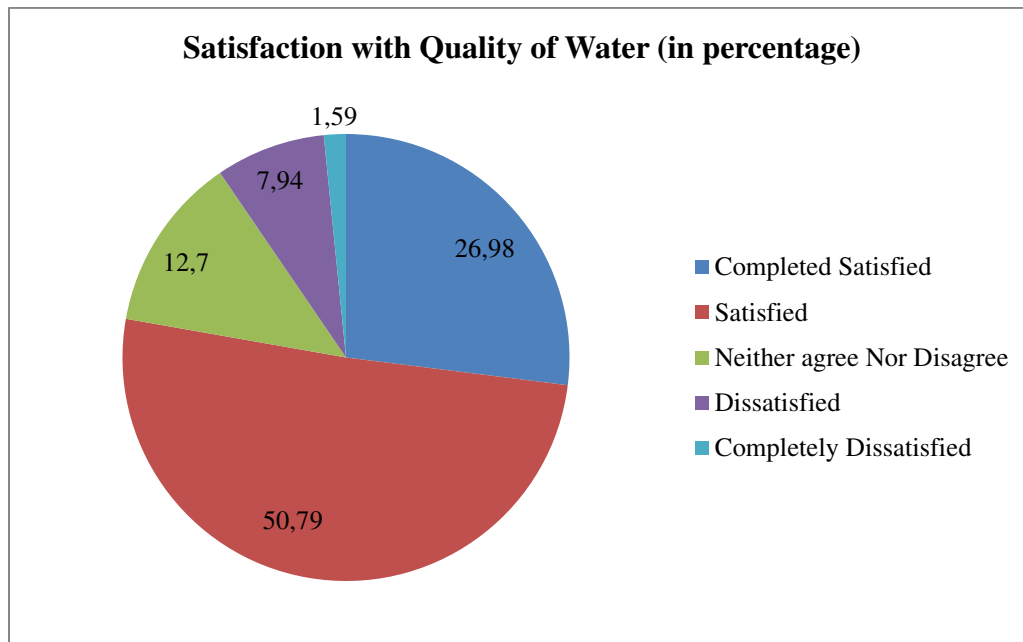
#### **Field Visit details:**

A team from IPE visited three villages in Yadadri district - Narayanpur, Jangaon and Peepal Pahad on 23<sup>rd</sup> March, 2018. The aim of the visit was to interact with different stakeholders and find out their responses with regard to safe drinking water and reasons for accessing the safe drinking water. The IPE Team conducted in-depth interviews as well as focus group discussions with the different stakeholders. In each village, the team spoke to 20-25 beneficiaries. A total of 63 beneficiaries were covered during the visit.

## Primary Data Analysis and Results- Safe Drinking Water Project:

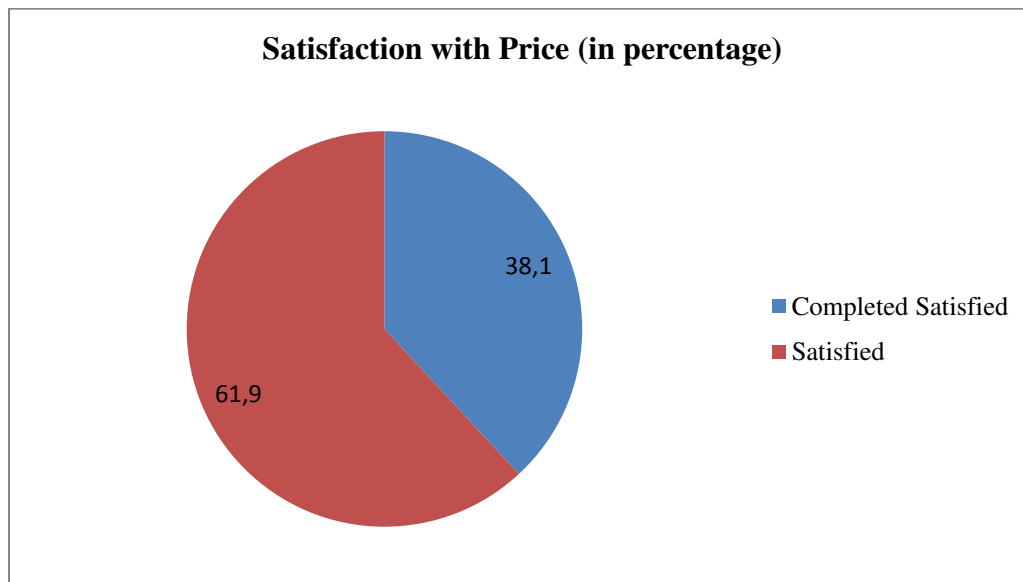
**Total surveyed Beneficiaries: 63**

### 1. Quality of Water Service:



The data reveals that Majority of the water users are satisfied with the quality of water.

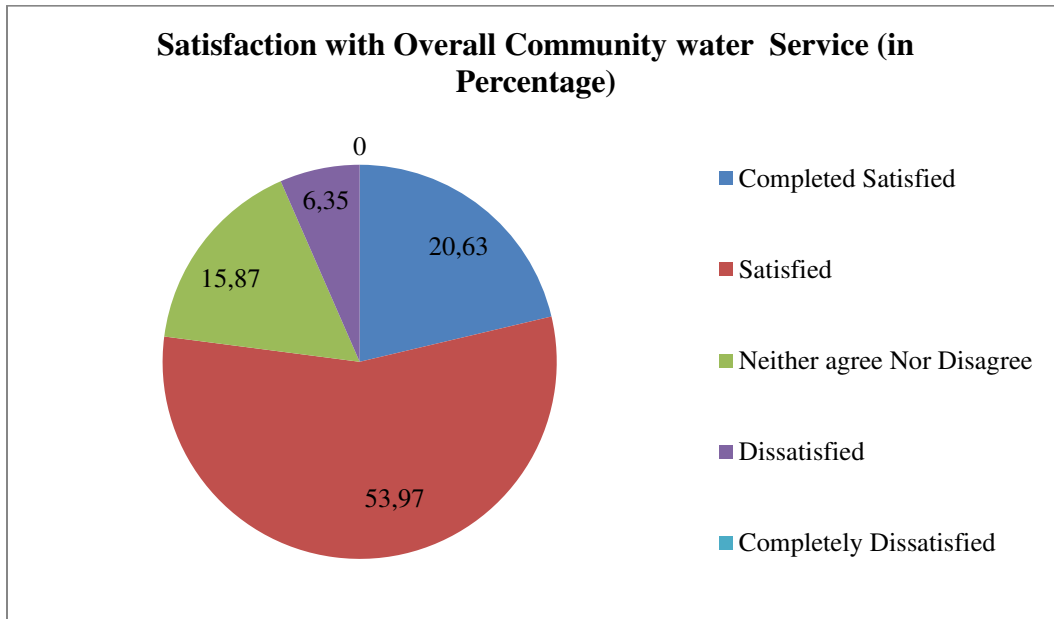
### 2. Satisfaction with Price



The data make it evident that majority of the water users are satisfied with price of 20 liter can.

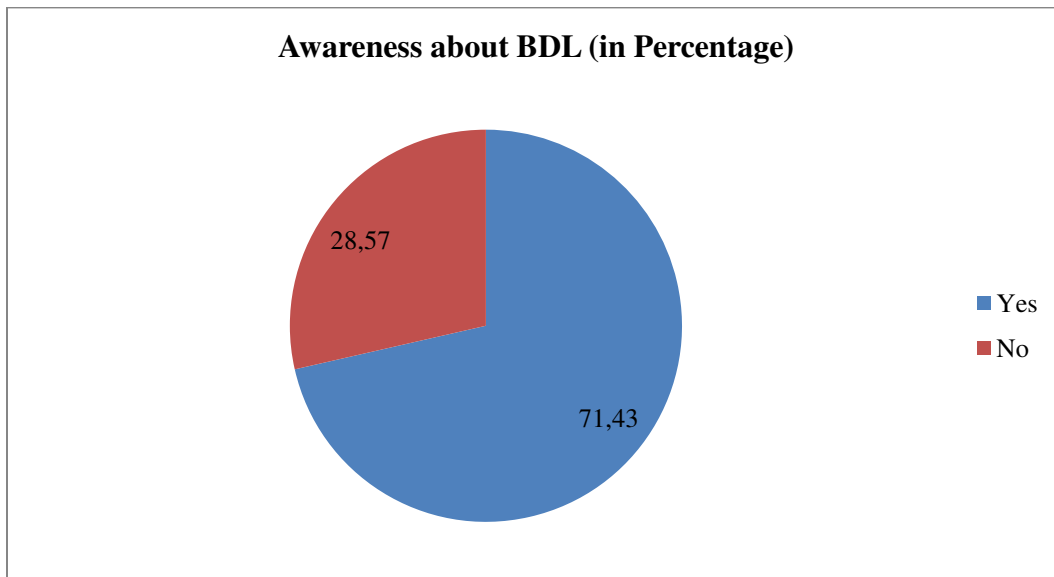


### 3.) Satisfaction with Overall Service



Majority of the water users are satisfied with overall community water service.

### 4) Awareness about BDL



Majority of water users are aware about BDL

## **Stakeholders Interactions**

### **Interview with Smt. Radha, Community Organizer**

**Janagam, Narayanpur Mandal**

**Visited date: 23-3-2018**

Smt. Radha has been working as community organizer for BDL-Naandi community water center in the Janagam village for 3 years. She shared that the primary objective of community water centre is to reduce the prevalence of water borne diseases and control the other health problems like joint pains, steoarthritis etc in the village by providing the safe drinking water to villagers. She educates the villagers on importance of safe drinking water, sanitation and good health practices by organizing various rallies conducted with the support of school children, self-help groups, village elders and panchayat members. She regularly visits the houses of people who stopped availing the plant treated water to find out the causes for it and inform them on importance of safe drinking water and ensure that they resume the usage safe drinking water again. She further added that 95% of households in the village are accessing the safe drinking water and the initiative by BDL- Naandi has been very helpful for the villagers.

### **Interview with Shri. Narsimha, R.O Water Plant**

**Janagam, Narayanpur Mandal**

**Visited date: 23-3-2018**

Shri. M. Narsimha has been working as R.O water plant operator since its inception. He ensures smooth functioning of R.O water plant and shared that the Water ATM Machine installed by BDL- Naandi foundation for villagers, facilitates the accessibility to safe drinking water at all times in the village. The Water plant operator issues the new ATM cards for new users and recharges the ATM cards for the existing users. For instance, on a recharge of rupees 90, 30 attempts of drawing water with 20 litres in each attempt can be made. Once ATM card is swiped in the machine, it dispenses 20 liters of water, after which it stops automatically, ensuring no wastage of water

He further mentioned that earlier villagers would consume Grampanchayat supplied bore-well water or water from the river Krishna (Sagar water). Grampanchayat borewell water contained high levels of fluoride, which was unfit for consumption purposes. The river water was also contaminated with different pollutants like plastic and chemicals, even leading to colored toxic water. This resulted in health problems like diarrhea, typhoid, viral fever, cough, cold etc. All these problems are now under control after installation of the R.O drinking water plant in the village.

## **Beneficiaries Interactions:**

### **Beneficiary-1**

Shri. Venkatesh, Weaver

Card Number: 249

Age: 30

Total Number of Family Members: 04

Health Problems: Nil

Narayanpur, Yadadri District

Visited Date: 23-03-2018

Shri. Venkatesh, Weaver, Age 30, Narayanpur Village said that BDL-Naandi Foundation has installed R.O safe drinking water plant 6 years ago. He has been accessing the R.O treated drinking water since inception of the R.O plant, prior to which his family would purchase R.O drinking water from private water suppliers, who would charge Rs. 10 Rs. per 20 liters can. But he was not satisfied with quality of that water due to improper water purification and sometimes he also had to consume the Grampanchayat bore well water in the absence of private R.O water supply.

He further mentioned that the Grampanchayat Borewell water was highly fluoride contaminated, due to which majority of villagers suffered from skeletal or dental fluorosis in the village. Now all these health issues are under control after the installation of the R O water plant. His family consists of 4 members. He fetches 20 liters of safe drinking water at cost of Rs. 2 from R.O water plant daily. He is highly satisfied with BDL-Naandi Community water initiatives.



**ATM 24 X 7 R.O Drinking Water Facilities at Janagam Village**

## **Beneficiary-2**

Shri. Ramulu, Private Teacher

Age: 50 years

Card Number: 35

Total Number of Family Members: 04

Health Problems: Nil

Janagam

Mr. Ramulu, Age 48, working as a private teacher said that he has been accessing the safe drinking water from R.O water plant since the plant was installed in the village. Earlier he would access Grampanchayat supplied Bore well Water or Krishna River Water for consumption of Household and drinking water purpose, which were unfit and highly contaminated. Grampanchayat supplied Bore well water contained high levels of fluoride and Krishna water was also contaminated with different pollutants like plastic and other wastes, which led to the villagers suffering from lot of diseases. He himself suffered from joint pains and osteoarthritis. He got relief from the joint pain after switching to the R O treated water and motivates his children about importance of safe drinking water, sanitation and good health. He highly appreciated kind initiative of BDL-Naandi Foundation community water service.

## **Beneficiary-3**

Smt. B. Kamma, Agriculture

Age: 45 years

Card Number: 120

Total Number of Family Members: 05

Health Problems: Joint Pains

Smt. B. Kamma, Age 45, Agriculture, has been accessing the R.O drinking water since inception of the R.O water plant in the village. Earlier she would access Grampanchayat supplied bore well water and Krishna river water, but she was not satisfied with quality of that water. She suffered from joint pain and frequently visited the hospitals for treatment, but there was no relief as had to consume the same fluoride contaminated water. She got some relief from her ailments after consuming the R.O. treated water. She is highly satisfied with BDL-Naandi Foundation water imitative.

Community Participation & adaptability which took more than 3 years

- Majority of the villagers work as daily wage labors in the agriculture fields from the morning till evening. It takes timeto collect water from CWCs during the peak time of the day. Inorder to ensure that people will have access to safe drinking water 24\*7, BDL has upgraded CWCs with automated dispensing units.

- Electricity supply in the plant is available for only 6 hours i.e 3:00 AM to 6:00 AM. & 12:00 – 2:00PM which is hindering the production of sufficient treated water for the villagers.

**Suggestions:**

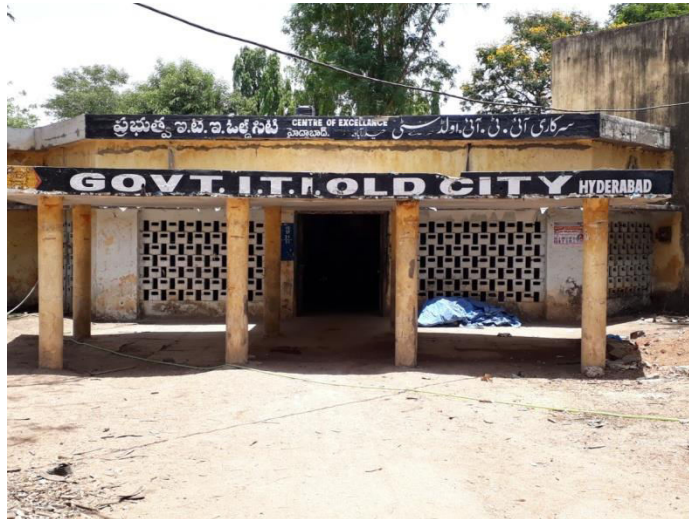
- Majority of the villagers suggested that door delivery service can be implemented.

**Impact:**

S. No	Parameter	Water Beneficiaries	Village Elders and Villagers	Plant Operator	Naandi Foundation Officials
1	Increase in access to safe drinking water (RO Water) facility (24X7)	Yes	Yes	Yes	Yes
2	Increase in safe drinking water consumption	Yes	Yes	Yes	Yes
3	Increase in community ownership of the initiative and support in creating awareness on health benefits	Yes	Yes	Yes	Yes
4	Reduction in water borne diseases like Typhoid, Cholera, Dysentery, Malaria and etc.	Yes	Yes	Yes	Yes
5	Reduction in health problems like Joint Pain, Osteoarthritis	Yes	Yes	Yes	Yes
6	Water taste and quality	Good	Good	Good	Good
7	Price affordability	Yes	Yes	Yes	Yes
8	<b>Overall Satisfaction Levels</b>	<b>High</b>	<b>High</b>	<b>High</b>	

## Area V: Skill Development

### Project 1: Adoption of ITI Old City:



**Objective:** BDL, under its Corporate Social Responsibility, has provided infrastructural support such as construction of class rooms, workshop for students with necessary furniture and basic amenities, procurement of tools, equipment & raw material etc. to the adopted ITI old city.



### ITI Colleges in Telangana State

**Governance Statement (MoU between ITI Old City and BDL):** This MoU shall be operative initially for a period of one year from the 30<sup>th</sup> of August 2016 to 29<sup>th</sup> August 2017 which may be extended if mutually agreed by the parties.

### CSR Budget for ITI old city for 2016-17

Total Budget allocation: Rs. 2.88 crores

Budget spent: Rs. 1.85 crores

### Status of Civil Works (BDL CSR-Funds)

Sl. No	Name of the I.T.I.	Name of the work for which administrative sanction accorded	Administrative Sanction (in Lakhs)	Status	Administrative Sanction Procds.No.	Name of the Executive Agency and contact number of the Engineer
1	GOVT.ITI, OLD CITY, HYDERABAD	Construction of Class Room Block	95.00	Works are under progress	IDCELL/3099/2016, Dated: 17-02-2017 of Directorate, Employment and Training, Hyderabad	Telangana State Education welfare Infrastructure Development Corporation, Rakhelkar Devidasrao, Divisional Engineer, 9704701603
		Construction of Plumber Workshop	30.00	90% of work completed only plastering is pending		
		Renovation of (6) Workshops	56.00	G.I Sheet roofing laid for Six workshops and Electrical works are in progress		

**Note: All works were sanctioned during 2016-17, still they are in progress.**

### ITI Trainees and Instructors Details

S.NO	Name of the Trade	Units	Intake Capacity	On Roll	Instructor
<b>TWO YEARS</b>					
1.	Fitter	3 Units	63	53	R.Srinivas Rao and Md.Wasifuddin both are Training Officers
2.	Turner	2 Units	32	24	V.Prashantha,D.T.O and S.Pavan Kumar,A.T.O
3.	Machinist	2 Units	32	29	Md.Majid,A.T.O( c )
4.	Mechanic Motor Vehicle	3 Units	63	59	R.Prema Kumar ,A.T.O and Mohd.Moinuddin,ATO (C)
5.	Electrician	2 Units	42	29	A.Ajay Kumar,D.T.O
6.	Electronics Mechanic	1 Unit	26	25	Md.Atharuddin,D.T.O
7.	Refrigeration and Air condition	1 Unit	26	14	K.BaliRam,A.T.O ( c )



8.	Draughtsman Civil	1 Unit	26	16	Farheem Begum,A.T.O (c )
		<b>ONE YEAR</b>			
9.	Mechanic Diesel	1 Unit	21	17	Muthyam Reddy,A.T.O (c)
10.	Welder	1 Unit	21	17	Prasad , A.T.O
11.	Sewing Technology	2 Unit	42	31	Md.Saber , A.T.O
12.	Plumber	2 Units	52	14	Shankar ,A.T.O
	Total		<b>446</b>	<b>328</b>	

### **BDL Carried out Infrastructural Developmental Activities – Snap Shot**

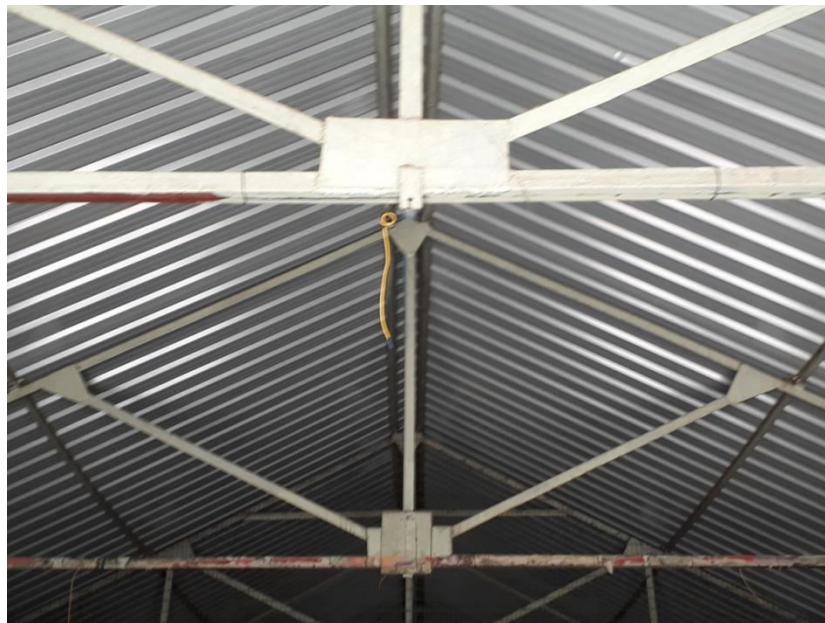


**Construction of Plumber Workshop with BDL funds (Rs. 30 lakhs) at ITI old city**





**Construction of Six Class Rooms with BDL funds (Rs. 95 lakhs) at ITI old city**



**Renovation of workshop by removing of Asbestos sheet and laying new Galvanized Sheet  
(Renovation total 6 workshops with BDL funds (Rs. 56 lakhs) at ITI old city)**

**Observation:**

1. More than 300 students were trained in 12 trades such as Fitter, Turner, Machinist, Mechanic Motor Vehicle, Electrician, Electronics Mechanic, Refrigeration and Air Condition, Draughtsman Civil, Mechanic Diesel, Welder, Sewing Technology and Plumber during the year 2016-17.
2. Majority of the students enrolled in this ITI College belong to the below poverty line category and come from remote villages.
3. This ITI center was established in 1972 and most of the class rooms & workshop were in a bad state. To support Government of India's prestigious program of Skill Development, BDL adopted the ITI old city and took the initiative of infrastructural developmental like construction of 6 class rooms, renovation of 6 workshops and establishment of a new plumber workshop during the year 2016-17.
4. All infrastructural works are under progress. 90% works of the Plumber workshop and renovation of 6 workshops were finished and constructions of class rooms are in the initial stage.
5. With the commencement of all the processes, the college will have a better infrastructure to support classroom and practical learning

**Interactions:****Interaction 1**

Smt. S. Renuka, Principal

ITI old city

Visited date: 21.4.2018

Smt. S. Renuka, Principal said that ITI Old City's condition was in desperate state before adoption by BDL as there was severe shortage of funds from the Government for any renovations. Maintenance of machinery and construction of new class rooms were very much required since there was insufficient infrastructure to conduct classes

The principal further mentioned that after adoption of ITI, Old City by BDL under their CSR program, there has been a drastic development in the infrastructure for class rooms/workshops for theory and practical classes and procurement of sophisticated machinery and equipment to provide practical training to the trainees and make them industry ready..

She appreciated BDL's kind efforts for adoption of ITI Old City and for all infrastructural development.

**Interaction 2**

Sri. R. Prema Kumar, Asst. Training officer

Mechanic Motor Vehicle (MMV) trade

ITI old city

Visited date: 21.4.2018

Sri. R.Prema Kumar, Asst. Training officer, Mechanic Motor Vehicle trade said that after adoption of ITI, Old City by BDL under CSR there have been many positive changes. Previously there was seepage of water through broken asbestos sheets which was causing injuries due to electrocution. After renovation with galvanized sheets, this problem was solved and the workshops have been operating in full swing.

He also stated that the practical training for trainees has improved a lot since there was an adequate supply of raw material and practical machinery/equipment from BDL.

### **Interaction 3**

B.Nagesh and R.Naveen

Trainees, machinist trade

ITI old city

Visited date: 21.4.2018

B.Nagesh and R.Naveen trainees of machinist trade shared their experience stating that before there was no proper facility to sit in the workshop as water was leaking from the broken asbestos sheets during rainy season but after renovation of workshops and replacement of the broken sheets with galvanized sheets this issues was effectively addressed and the students are able to sit comfortably and attend the workshops.

### **Interaction 4**

Smt. Safia Khtoon & G. Swathi

Sewing machine trainees

ITI old city

Visited date: 21.4.2018

Trainees of Sewing Technology trade Smt. Safia Khtoon and G.Swathi expressed their deepest gratitude to BDL for the adoption of ITI, Old City. They mentioned that BDL provides them with raw material and advanced industrial sewing machinery for training, which has helped in their progressive learning. Through these skills they have been able to earn a decent livelihood and support their families. Many jobs in garment industries have opened up for them, through these skills. They wanted to carry BDL's training further by training the women in other rural areas to make them independent and financially stable.

## Glimpses



**Automobile repairing in MMV course**



**Sewing Machine Training**



**Project 2: Skill Development for unemployed youth****Location:** IISc, Chithradurga Campus, Karnataka**CSR Budget Allocation:** Rs. 1 Crore**Spent:** Rs. 90 lakhs**Implementing Agency:** IISc, Bengaluru

This project has a high achievement hopes under the flagship program of Indian government 'Skilling India'. A telephonic interaction was organized with Prof. Ram Turaga from IISc. He revealed that three sets of program were organized as a part of the skill development initiative dated: 22<sup>nd</sup> – 26<sup>th</sup> Jan, 19<sup>th</sup> – 23<sup>rd</sup> Feb and 19<sup>th</sup> – 23<sup>rd</sup> March, 2018. The training program helps in understanding the basics of systems like, panels, inverters, grid interfacing to the existing grid. Also, this training program aims to train participants of installation, operation and maintenance of the solar power systems. All the participants were given the certificate of training after successful completion of the course.

**Short listing of participants**

Among 267 applications, short listing about 20 candidates each batch in 3 batches is done based on following three criteria: Based on the qualification: Candidates from Diploma, B.E/B.Tech, M.E, M.Tech, Ph.D, B.Sc & M.Sc backgrounds are given chances to participate in the training. Depending on the field of working: Candidates from teaching sector like professors of various Engineering Institutes, people working in renewable energy related research companies and also fresh graduates have been shortlisted. Depending on the place: Candidates from different place across the country are given opportunity so that this training is spread across the nation.

**Course contents**

IISc faculty delivered the lectures on,

- Introduction to renewable energy sources
- Basics of solar photovoltaics and thermal
- PV characterization
- Introduction to power electronics, design of inverters
- Application of solar PV and solar thermal
- Energy storage
- Sustainability
- PV installation, Grid operation and maintenance

The course also consists of technical discussion, Lab visits and Field visits. The participants were also asked to complete some assignments during the training program.

**Lab visit details**

- Electronics lab: Different kinds of PCBs & Student built inverters which is working successfully for a grid integrated system is shown.
- Organic nano electronics lab: Design, synthesis and characterization of organic PV cells.
- Thermal lab: Concentrated solar power technology with super critical CO<sub>2</sub> as a working fluid.
- ICER lab: Operation of Nvis instruments and Eco-sense model for demonstrating the solar experiments like shading effect, tilt effect, effects of bypass & blocking diodes, on grid & off grid operation, single axis & dual axis automatic tracking, time tracking and manual tracking.

Also, hands on experiment to plot I-V characteristics, determine efficiency and MPP was done.

- Solar Dashboard: Data extraction, Data storage, synchronization with the cloud and data analysis procedure.
- High voltage lab: Impulse generator, Cascaded transformer, Pure sine wave AC generator, Humidity chamber, Atmospheric pollution testing, Insulation testing, Corona Testing facility etc.

#### **Field visit details**

- ICER BiPV: 4kW grid reference, building integrated photovoltaic system with micro inverter, weather station & without battery.
- CST BiPV: 20kW grid reference, building integrated photovoltaic system with micro inverter and string inverter installed as a part of the building.
- Electronics lab BiPV: 25kW grid reference, building integrated photovoltaic operating with the student designed micro inverters.
- Challakere large test bed

#### **Staying connected even after the training**

Participants are connected to IISc through a Google drive where the notes, materials and other information will be updated regularly. Also, participants will be in contact with instructors through G-drive and clarify concepts or issues related to solar installations and research. Classes were held at Inter Disciplinary Center for Energy and Research (ICER-IISc), lab visits and demonstration were conducted by students of our research group.

**Feedback:** Received good feedback from the participants of two batches and the third program is in progress. All the feedback is stored online.

#### **Participants of the three training programs**

1<sup>st</sup> Batch: 22<sup>nd</sup> -26<sup>th</sup> Jan 2018



2<sup>nd</sup> Batch: 19<sup>th</sup> -23<sup>rd</sup> Feb 2018



3<sup>rd</sup> Batch: 19<sup>th</sup> -23<sup>rd</sup> March 2018



sports

## Satisfaction

S.No	Parameter	Trained Students	Instructors	Trained Students Parents	Employers
1	Increase in placement opportunities	Yes	Yes	Yes	Yes
2	Increase in entrepreneurial Opportunities for trained students	Yes	Yes	Yes	Yes
3	Increase in Infrastructural facilities for class room teaching and practical sessions	Yes	Yes	Yes	Yes
4	Increase in livelihood opportunities of rural Youth/Women	Yes	Yes	Yes	Yes
5	Supply of skilled resources to local / regional Employers	Yes	Yes	Yes	Yes
6	Decrease in unemployment rate	Yes	Yes	Yes	Yes
7	Increase in socio-economic empowerment of Youth/Women and their families	Yes	Yes	Yes	Yes
8	Increase in access to Skill Development Programmes	Yes	Yes	Yes	Yes
	<b>Overall Satisfaction Levels</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>	<b>Very high</b>



## Area VI: Sports Development

**Project Name:** Contribution to National Sports Development Fund (NSDF)

**Location:** SAI STC Gachibowli, Secunderabad

**Project Cost:** Rs. 2.25 Crore

**Visit date:** 8.6.2018

### About National Sports Development Fund

The National Sports Development Fund (NSDF) was established in November, 1998 under Charitable Endowments Act, 1890 with the aim of promotion of sports and game in the Country. The main objects of the fund are as under:

- To administer and apply the moneys of the Fund for promotion of sports in general and special sports disciplines and individual Sportspersons in particular for achieving excellence at the National and International level;
- To impart special training and coaching in relevant sports disciplines to Sportspersons, Coaches and sports specialists;
- To construct and maintain infrastructure for promotion of sports and games;
- To supply sports equipment to organizations and individuals for promotion of sports and games;
- To identify problems and take up research and development studies for providing support to excellence in sports;
- To promote International cooperation, in particular, exchanges which may promote the development of sports; and
- To provide low interest or interest free loans for projects and actives related to any of the aforesaid objects.

**The BDL effort:** Bharat Dynamics Limited has signed a Memorandum of Understanding (MoU) on 24.3.2017 with Ministry of Youth affairs and Sports for contribution of Rs. 2.25 Crore to National Sports Development Fund.

The MoU was signed as a part of Corporate Social Responsibility initiative taken up by the Company for promotion of excellence in sports in India and achieving greater heights at national and international level competitions.

- With the contribution of Bharat Dynamics Limited (Rs. 2.25 crore), upgradation of SAI STC Gachibowli – Secunderabad is being done to make it as a Centre of Excellence known as SAI-BDL Sports Training Centre.
- The projected Cost for the upgradation of facilities at SAI STC Gachibowli is Rs. 3.65 crore. The work will involve repair and renovation of hostel building – kitchen / dining hall etc.



- The cost will be met out of BDL CSR funds and the balance i.e. over and above the BDL contribution, Sports Authority of India will make the provisions and will bear out of its own resources.
- The renovation of hostel building –kitchen /hall work is yet to be started.
- Presently 75 boys and 50 girls are staying at sports hostel and they are being trained for athletic, archery, hockey, handball and kabaddi etc. sports.



### Satisfaction

S. No	Parameter	Sports Coaches	Sports Person	SAI officials
1	Access to sports infrastructure	Yes	Yes	Yes
2	Will provide quality recreational canteen infrastructure	Yes	Yes	Yes
3	Will improve sanitation facility	Yes	Yes	Yes
4	Environment	Yes	Yes	Yes
	<b>Overall Satisfaction Levels</b>	<b>Very High</b>	<b>Very High</b>	<b>Very High</b>

## Area VII: Others

### Project 1: CCTVs Installation at Kanchanbagh PS limits

Implementing Partner: Hyderabad Police Department

Budget allocation: 20 lakhs

Budget spent: Rs. 15 lakhs

Status: completed

This project though undertaken in city limit stands important as Kanchanbagh is an area with presence of defense and other organizations like BDL, DRDO, MIDHANI etc. Since years the other companies have not much focused on the vigilance and security of the local area thus BDL took the initiative. BDL has partnered with Hyderabad City Police for the installation of CCTV cameras in the Kanchanbagh Police Station vicinity and a total 24 CCTV cameras were installed. The initiative will help in prevention and control of crimes by developing a fear in criminals attempting to commit offences and will also help in nabbing of offenders.



### Importance of CCTV Cameras in Crime detection:

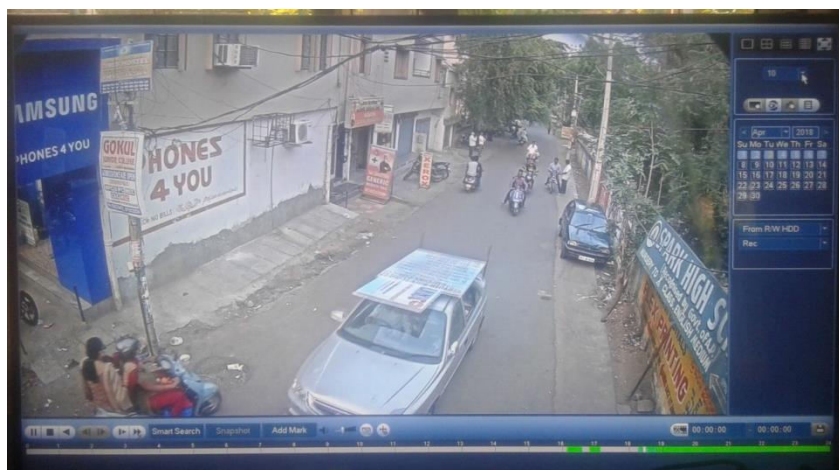
With help of CCTV camera system, police can easily monitor the places and secure the areas, without being physically present in the places.

The police can identify criminals through the CCTV footages which also serve to be legal evidences and help in serving justice. In addition, surveillance cameras protect against property theft, and vandalism. It is very difficult to get away with stealing something if there are cameras filming the area. CCTV cameras prove to be very efficient in maintaining the law and order and to bring criminals to justice. People will not be aware of the crime until after it has been committed. In such scenario the surveillance footage is always a crucial piece of evidence during a police investigation. Surveillance cameras have, and will prevent many crimes.

During the festivals viz Ganesh Utsav & Ganesh Immersion, Sree Rama Navami, Hanuman Jayanthi, Ramzan, Bakrid etc., CCTV cameras play a vital role in avoiding any untoward incidents.

**Before Installation of CCTV Cameras:** During the year 2015, 7snatching incidents and 4 snatching incidents in the year 2016, were reported.

**After Installation of CCTV Cameras:** There is improved safety and security of school going children, women and normal public in this area. No snatching cases were reported during the year 2017 and 2018 (up to 31.3.2018).



C.C Camera footage of D.B Nagar

The main aim and objective of the CCTV cameras installation is safety & security of citizens of Hyderabad. CCTV cameras are very useful and helpful to police department in prevention of crime and maintaining the law and order, especially during the festivals time like Vinayaka Chavathi, Bonalu, Ramzan, Bakrid, Anjaneya Jayanthi etc. Due to wide range of publicity regarding CCTV cameras, the criminals are afraid of committing crimes. These CCTV cameras will give 30 days' storage of video footages.

BDL-Police department installed 24 CCTV cameras in

1) BDL main gate-3 cameras, 2) DRDO township gate-2 Camers,3) Maruthi Nagar-Opp. Saibaba temple – 1 camera, 4) Maruthinagar-Church lane – 1 camers, 5) East Maruthinagar Kaman – 1 camera, 6) H.P petrol pump-2 camers, 7) Gandhi Statue – 2 cameras; 8) D.B Nagar road no. 6-1 camera, 9) Vaddera Basti – 2 cameras, 10) Central Excise Colony-3 camers, 11) Bhasyam School – 1 camera, 12) D.B Nagar – Opp. Crystal Bar – 1 camera, 13) Near D-Mart , Rajireddy Nagar – 2 camers, 14) Indo English School – 1 camera

### Cases:

In the month of September, 2017, two unidentified men tried to snatch away the weapon from the Sentry CISF Police at BDL main gate, Kanchanbagh. Immediately, a case was registered vide CR. No. 174/2017, U/s 392 IPE and the accused were arrested with the help of the CCTV camera footages.



**CCTV Camera at BDL Gate**

### **Stakeholders Interaction:**

#### **Interaction-1**

Shri. Shankar, Circle Inspector  
Kanchanbagh Police Station  
Kanchanbagh, Hyderabad  
Visited Date: 7.4.2018

Shri. Shankar, Circle Inspector of Police said that with support of BDL, Hyderabad police department installed 24 CCTV cameras in various important places of Kanchanbagh police station. The main aim of installation of CCTV cameras is to control the crime and improve the safety and security of school going children, women, and normal public in this area.



He also mentioned that after the installation of CCTV cameras the crime rates has decreased considerably. CCTV cameras are playing a key role in decreasing crime rates, so every house should install CCTV cameras to protect themselves as well as to prevent any unwanted incidents such as theft, vandalism etc. Under Nenu Saitham project, 2651 cameras were installed in the areas coming under the police station, which has led to considerable decline in the crime rates.



**Interaction 2:**

Shri. Raghuma Reddy, Business  
 East Maruthnagar, Kanchanbagh Police Station Area  
 Hyderabad  
 Visited Date: 7.4.2018

Shri. Raghuma Reddy, Business East Maruthinagar, said that BDL and Hyderabad police department installed two CCTV cameras in Maruthnagar 1 year ago. As per instructions of Police department, for safety and security reasons, East Maruthi Nagar colony Members also installed CCTV cameras in their own colony premises.

He also shared that before installation of CCTV cameras, 4 snatching incidents had happened which have not occurred even once after the CCTV cameras were installed.

**Interaction 3**

Shri. P. Jaipal Reddy, Business & Shri. Raghunandan Reddy, Business  
 Maruthinagar  
 Kanchanbagh Police Station Area, Hyderabad  
 Visited Date: 7.4.2018

Shri. P. Jaypal Reddy & Mr. Raghunandan Reddy said that BDL & Hyderabad police department installed CCTV Cameras in their area in Maruthinagar and the colony members also installed CCTV cameras in their premises. After installation of CCTV cameras, thieves were caught on two occasions in the colony with the help of the CCTV footages. Now everybody is aware that the colony has CCTV cameras installed, which has led to less incidents of chain snatching, robberies and harassment of women and children. Colony members are highly appreciating the BDL & Kanchanbagh Police for their kind effort of installations of CCTV cameras.

**Satisfaction**

S. No	Parameter	Police man and other officials	Members of Colony Associations	Local Residence
1	Increased safety and freedom to local people	Yes	Yes	Yes
2	Detection and prevention of crime	Yes	Yes	Yes
3	Increase in Women and Child safety	Yes	Yes	Yes
4	Reduced vandalism	Yes	Yes	Yes
	<b>Overall Satisfaction Levels</b>	<b>Very High</b>	<b>Very High</b>	<b>Very High</b>

## Chapter IV

### Impact Assessment

Impact was measured considering majorly the six criteria of relevance, efficiency, effectiveness, innovation, sustainability and community participation.

1= Poor, 2= Fair, 3= Good, 4= Very good and 5= Outstanding

#### I Assessment for Rural Development project

Sl. No	Criteria	Assessment
1	Relevance	5
2	Efficiency	4
3	Effectiveness	4
4	Innovation	4
5	Sustainability	4
6	Community Participation	5
	<b>Overall</b>	4

#### II Assessment for Healthcare projects

Sl. No	Criteria	Assessment
1	Relevance	5
2	Efficiency	5
3	Effectiveness	5
4	Innovation	4
5	Sustainability	4
6	Community Participation	5
	<b>Overall</b>	5

### III Assessment for Sanitation projects

Sl. No	Criteria	Project 1	Project 2	Project 3	Project 4.	Project 5.
		<b>Construction of Electronic Toilets (SHE e-Toilets)</b>	<b>Provision of running water facility for toilets in Govt. Schools, Telangana</b>	<b>Provision of running water facility for toilets in Govt. Schools of Andhra Pradesh</b>	<b>Maintenance of School Toilets in Govt. Schools of Telangana</b>	<b>Maintenance of School Toilets in Govt. Schools of Andhra Pradesh</b>
1	Relevance	5	4	4	4	4
2	Efficiency	5	3	3	4	4
3	Effectiveness	5	4	3	4	3
4	Innovation	5	4	4	4	4
5	Sustainability	5	4	4	4	4
6	Community Participation	4	4	4	4	4
	<b>Overall</b>	5	4	4	4	4

### IV Assessment for Education projects

Sl. No	Criteria	Mid-day Meal	School Furniture
1	Relevance	5	4
2	Efficiency	5	5
3	Effectiveness	5	5
4	Innovation	5	5
5	Sustainability	4	5
6	Community Participation	5	4
	<b>Overall</b>	5	5



### V Assessment for Skill Development projects

Sl. No	Criteria	Adopted ITI Old City	Skill Development for unemployed youth, Karnataka
1	Relevance	4	4
2	Efficiency	4	5
3	Effectiveness	4	4
4	Innovation	4	4
5	Sustainability	4	4
6	Community Participation	4	5
	<b>Overall</b>	4	4

### VI Assessment for Sports Development Project

Sl. No	Criteria	Adopted ITI Old City
1	Relevance	5
2	Efficiency	3
3	Effectiveness	3
4	Innovation	4
5	Sustainability	4
6	Community Participation	4
	<b>Overall</b>	4

### VII Assessment for Others

Sl. No	Criteria	CCTVs Installation
1	Relevance	4
2	Efficiency	5
3	Effectiveness	5
4	Innovation	5
5	Sustainability	5
6	Community Participation	5
	<b>Overall</b>	5

## **Chapter V**

### **Conclusion**

With the onset of social responsibility BDL has achieved the pinnacle of being at the helm of social development through its innovative CSR practices. With nations taking up the responsibility of developing a smarter and greener planet, BDL has contributed substantially in bringing up the very foundation of this nation through its rural development initiatives in the fields of education, health care, sanitation and overall sustainable living of the under-privileged. An all pervasive strategic developmental program was designed by BDL targeting major issues of hunger, malnutrition, health care for women, children and elderly in remote areas, access to clean and safe drinking water, sanitation and right to education. These initiatives were implemented through various village adoption programs, tie ups with NGO's and in co-ordination with government initiatives such as the Swacch Vidyalaya Abhiyaan and other skill development programs.

Remote villages like Gondupalem and Kyasaram were adopted under this program and with the support of the people BDL successfully implemented its various plans with great results. Programs such as skill development for employment generation facilitated by a BDL constructed community center, installation of water treatment plants for portable water accessibility to eradicate water borne diseases and fight water shortage, construction of primary health care center and installation of toilets for individual households to prevent open defecation are a few to be named among other great initiatives. The positivity and gratitude can be witnessed in the villages as they anticipate a bright future for their children and a better living for their families under the umbrella of BDL's vast CSR activities.

Encompassing their schemes for concreting the "Right to education" for children, BDL has collaborated with Akshyaya Patra Foundation and implemented Midday meal programs across villages of Sangareddy district and Vishakapatnam serving food to over 15,000 children and drop-out rates in schools due to poverty and hunger. This scheme not only encourages the villagers to send their children to school, but it also helps to develop the health conditions of these under privileged children by fighting malnutrition.

Another exemplary effort in the field of education was their initiative of providing school furniture to about 5 villages in Nalgonda, manufactured by the inmates of Chnachalguda Prison. This has led to inculcating the values of citizenship by providing means of livelihood to the prisoners as well as helping them to become socially responsible in their own way by helping schools provide better education with these amenities. National Academy of Construction, a government undertaking has been working proactively for the better absorption of these prisoners in the society. Even the psychological restoration of these prisoners is taken care

through Modern Correctional Concepts such as group therapies, vocational training, value education, maintenance work and other recreational activities.

Health Care activities have always been the forte of BDL's CSR initiatives and staying true to its worth, very helpful steps have been taken in collaboration with HelpAge India to provide elderly citizens residing in the villages of districts of Yadadri and Vishakapatnam, with proper treatment along with health awareness camps and free medication and consultation. This initiative has been appreciated greatly for its door to door reach and for bringing hospitals to homes through its Mobile Medicare Units. With decreasing elderly mortality rates this program has shown significant results in reviving the general public health of these rural areas.

Under the Swacch Telangana Mission, BDL in partnership with GHMC has constructed SHE – e toilets all across Hyderabad to implement the concept of “open defecation free city”. The need of the hour has been precisely identified by BDL and technology based strategies have been formulated for long term sustainability and the “SHE – e toilet” is the unparalleled example for it. With absolute automation, impeccable maintenance and user friendliness, these toilets are covering the major areas of Hyderabad city to provide maximum access to the general public. Promoting female safety, health and hygiene, these toilets have not only restored dignity for women but also inculcated the awareness towards the benefits of healthy sanitation. Going back to the rural areas, many government schools in remote villages in the districts of Telangana and Vishakapatnam have been provided with running water facilities for toilets and hand wash areas. The students are being diligently educated under the Sarva Shiksha Abhiyaan and Swachh Bharat Abhiyaan to instill healthy habits of washing hands and using toilets for maintaining good health and hygiene.

BDL has embedded “right to life” as one of its agendas and has taken micro steps in collaboration with Naandi Foundation, to achieve it through its initiative of provision of clean drinking water to villages agonized due to contaminated water supply and shortage of portable water leading to various water borne diseases and poor health conditions. Water treatment plants equipped with the latest R.O. technology have been installed in various villages helping multitudes of households in accessing clean and safe drinking water at a bare minimum cost. With these initiatives and their excellent results BDL has proved to be a pioneer in the development of this nation and a true example of what CSR really consists of. Seen clearly in the deepest gratitude of the stakeholders and beneficiaries, the numbers do not do justice to the goodwill and aegis that BDL holds as its true spirit of National Development.